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Volume 109 July-December, 1971

> McGRAW-HILL, INC. 330 West 42nd Street - New York, New York 10036

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U.S. firms can participate in Algeria's	Oct	6	19
industrial development	Nov	24	43
its chemicals division's Newport plant	Aug	11	31
Aluminum Alcan's first sale to China N	July	28	29
Alcan's first sale to China N Alcoa cutbacks in aluminum production at Rockdale, Tex., Badin, N.C., and Massena, N.Y N			22
Massena, N.Y. N Conalco strike goes on Dividends cut by Reynolds and	July Nov	14	33 21
Harvey	Sept	1	8
stabilize the aluminum market — Alufinance and Trade N	Aug	11 13	18 57
Ingot prices N Sept 29-37 N Japanese firm to export fabricated nu- clear fuel; agreement with the	Oct	13	57
Pakistani AEC	Aug	18	87
Metals producers hope for '72 upturn, in-	Nov	3	19
vest for long-term growth (chart) Outlook dim, Alcoa's George blames	Dec	8	15
governmental actions for abetting world aluminum oversupply	Sept	22	21
plore what can be done about strength- ening domestic aluminum production			
resources N Producers ponder price changes, look for		7	34
'72 pickup (charfs)	Nov	17	45
Makers meet to discuss business outlook, pollution	Nov	3	19
American Chemical Society Meeting (162nd): Comparing notes on			
research Nixon, Alan new president-elect American Dental Assn. — Toothpaste	Sept Dec	22 15	69 24
makers deny Nader's charges that stannou	s July	21	13
fluoride in toothpaste stains teeth American Gas Assn. — Natural gas industry and Dept. of Interior will launch joint research program to develop commercial			
coal gasification program	Agu	11	11
Meeting (64th annual): focuses on proc- esses American Petroleum Institute — Meeting	Dec	8	42
(annual): Energy gap is chief problem facing U.S. petroleum industry American Society for Testing & Materials Project Threshold: 3-year, \$2-million in-	Nov	24	21
dustry-financed study being launched to			
find ways to assure accuracy of air pol- lution measurements	Sept	15	29
Armak's plant at Morris, III.,			
UC ethylene amine capacity at Taft, La.,			33
Ammonia	N Sep	. 1	33
Dow reveals pricing system for corrosion inhibitor system for ammonia and hydro	-		
gen plants using monoethanolamine strip ping	N Oct	13	71

Kallons offering stripping unit to clean up			
Kellogg offering stripping unit to clean up steam condensate in ammonia	h de c	21	49
plants N Mechanical design techniques and cor- rosion inhibitors cut plant downtime —	luly	21	49
UN Second Interrregional Fertilizer	Oct	13	77
Nederlandse Stickstoff Maatschappij in-	Dec	22	21
Plants with 3.000-tons/day reactors are			
UC's corrosion-inhibitor system could slash production costs in ammonia	Sept	8	40
	Aug Oct	6	32 5
Ammonium Chloride	0		10
CIL plans plant at Cornwall, Ont R : Communist China to purchase ammonium chloride from Japan		1	10
Ammonium Perchlorate - Kerr-McGee stops	Aug July	25	33
production at Henderson, Nev N Animal Drugs	July	1.4	55
FDA issues final regulations to consoli- date scattered procedures for premarket			
Makers of combination antibiotic drugs used in animal feeds are balking at	Sept	22	31
FDA's request for extensive data to sub- stantiate effectiveness	Sept	22	31
Vaccine to stem the epidemic of sleeping sickness afflicting horses in Texas N	July	28	39
Venezuelan equine encephalomyelitis battle: chemical products, including	outy	20	00
vaccines and insecticides, are enlisted by government and state agencies	Sept	8	12
Animal Feed			
Celanese's ChemStor new feed-grain pre- servative, also as high-energy animal feeds for beef cattle, test-marketing			
program	Sept	8	25
petitor to drying and airtight silos for feed storage	Oct	6	50
DES: hearings to find out why USDA failed to report findings of residues in some cattle and sheep tested N Oct 20-	Oct	Ü	30
27 N Animal feed additive gets another go-	Nov	24	14
ing over at new hearings	Dec	22	17
Anodes Metal Associates withdrawing as sup-			
plier of metal anodes for chloralkali	Dec	15	39
Near-term future not bright N	Dec	22	31
Titanium anode for chlorine cells: Olin will install the anode at Augusta, Ga., N	Oct	27	37
Antibiotics Makers of combination antibiotic drugs			
used in animal feeds are balking at			
FDA's request for extensive data to substantiate effectiveness N	Sept	22	31
Rifadin effective against TB from Dow	Aug	18	27
Tetracycline, semisynthetic, introduced by Lederle – Minocin N	Oct	13	71
Tetracycline cases U.S.Supreme Court refuses to hear appeal challenging the way money from court judgment will be dis-			
tributed	Oct	20 27	17 20
Antifogging compounds — Apollo 15 astro- nauts using new compound on their hel-	OCI	21	20
met visors N	Aug	4	34
Antifreeze Du Pont's Zerex antifreeze: right to			
promote antifreeze as self-sealing won	Nov	24	23
Glycol market warms (chart)	July	21	37 41
Antimony Oxide - Prices N	July	21	41
Antitrust Celler, Rep. E., wants an antitrust czar			
with power to veto acquisitions FTC putting together new yardstick for measuring, industry by industry, how	Sept	15	18
likely it is that a company will violate the Sherman or Clayton acts N Filtrol drops antitrust suit against Slick; Slick must form a new corporation to	Oct	27	13
take over the assets it sold to Pacific Vegetable Oil	Nov	24	19
sitions of coal, other energy sources defended	July	28	17
so auto makers can exchange emission control information July 28-15 N	Sept	22	17
Hart, Sen., proposes plans to break up "concentrated industries" to preserve stability	Oct	6	11
If antitrust is to be rejiggered into U.S. trade policy new legislation will be necessary	July	21	9
Justice Dept. rules American Petrofina cannot buy former Sinclair Oil proper- ties in 14 Western states from Atlantic			
Richfield F	Dec	1	18

McLaren, R. and S. Kashiwa leave			
Justice Dept.; named to federal judge- ships N National Steel-Granite City Steel mer- ger: Justice may ease up on antitrust	Dec	15	17
enforcement	July	21	9
Senate Antitrust Subcommittee legislation is aimed at breaking up the long-estab-	Nov	17	17
lished giants in industries dominated by a handful of big companies N ! Shipping contract is crux of U.S. suit with	Sept	15	13
foreign firms. Warner-Lambert acquisition of Parke- Davis: request for order to restrain FTC	Dec	22	16
from charging antitrust violation de- nied	July	21	15
Area Development Delaware officials would welcome Scott Paper expansion	Aug	25	16
Delaware sets up a committee of busi- ness and professional leaders to attract other companies' corporate headquar- ters and related operations to the			
state	Nov	3	19
currency revaluations may especially en- courage new projects in the U.S	Oct	6	14
facilities study shows	Aug	4	9
Argentins Chemical producers troubled by growing government involvement	Nov	17	31
Hydrogen peroxide plant onstream at Rio Tercero	Sept	15	24
based on findings in survey Polypropylene plant in Mendoza province	Sept	1	16
plannedN	Nov	17	31
Aromatics Availability of aromatics at refineries will depend on octane ratings in lead-free			
gasolines the '75 autos can use N Yugoslavian aromatics fractionation plant	Aug	25	47
contract to Snam Progetti A	Aug	4	19
Asbestos Emission standards set by EPA are under	0	6	48
review . N Illinois announces state-wide hearings on emission control N	Oct	13	71
EPA cracks down on open-air spraying	Oct	8	43
of asbestos products FDA analysis of talcum powder finds as much as 25% asbestos content in samples of two leading brands	Dec	15	21
ples of two leading brands "Unity on asbestosis" — Clearing the air — letter	Sept	29	15
Asia see under individual countries			
Atomic Energy Commission Atomic disposal dump near Lyons, Kansas plans scrapped; decision could hold up licenses for new power			
plants	Oct	13	71
systems in nuclear power plants to be held in January N New cast for AEC: James Schlesinger, and William Doub	Dec	8	14
No routine radiation will be released from	July	28	17
nuclear power plants using fast-breeder reactors	July	21	49
Puerto Rico PS Commission approves plan N Oak Ridge: syntactic carbon foam Regranization will mean a major shift	July July July	14 21 21	26 49 24
Reorganization will mean a major shift in emphasis in agency's activities Shares know-how on nuclear fuel en-	Dec	22	16
richment Shortage of enriched uranium by '79 appears likely: Congressional Committee	Dec	8	18
Trojan power plant in Columbia County,	July	21	12
Ore., given green light	Nov	24	19
U.S. Court of Appeals rules that the AEC must give more weight to environ- mental factors for the nuclear power			
plants it licenses	Aug	4	32
Atomic Power AEC see Atomic Energy Commission Cherry, M., complains that academicians won't testify against proposed atomic			
power plants because they fear AEC and industry research money would be withheld from their institutions N	N Aug	4	15
GE's nuclear fuel reprocessing plant will use new techniques (flowsheet) Gravel, Sen., wins a promise for Con-	Aug	18	91
gressional hearings on proposal that would repeal the Price-Anderson Act	N Aug	4	16
	9		

Gulf United Nuclear Fuels Corp.			
formed by Gulf Oil and United Nuclear	July	14	15
Japanese firm to export fabricated nu- clear fuel; agreement with the Pakistani	Aug	18	87
Japan's nuclear fuel industry considers reprocessing plant to supplement plant	Dec	15	35
Midland, Mich., nuclear power station	Nov	17	23
Nuclear power plants: fewer and farther	Nov	3	15
Nuclear research reactor fuel provides several times the useful life span of	NOV		10
Nuplex may find home in	July	7	27
PS Commission approves plan N	July July	14	26 49
Platform-mounted offshore nuclear power plants Thermal pollution see Environment;	Aug	18	98
Water Pollution			
Trojan power plant in Columbia County, Ore, given green light Underground nuclear blast at Amchitka Island, Alaska, may lead to use of such	Nov	24	19
explosions to tap new sources of natural	Nov	17	24
gas	Aug	4	12
Austrelia			
Chemical industry report N Cresco's land and buildings at Westernport,	Sept	29	27
Victoria, acquired by Esso—BHP N Cresco's nitric acid and ammonion nitrate facilities at Westernport, Victoria:	July	14	40
Du Pont does not exercise option to buy N	July	14	40
Ethane pipeline across Port Phillip Bay, delayed	July	7	40
Fertilizer industry faces continued profit drought	July	14	43
producers	Sept Aug	1	13
Slurry pipelines have a big future N	Nov	17	65
Austria – Merger of the petrochemical divisions of OMV and OSW set	Sept	29	32
Automation - Decal system, Roll-Mark, will boost consumption of decorated ceramic tile	Aug	25	51
Automobiles Air bags: Controversy over rapid-inflating,			
balloon-type safety devices Air bags face new delay	July Sept	28 15	16 17
Aid on auto emissions: Chicago class action suit thrown out; antitrust break	le de c	20	16
called for Engelhard's PTX platinum-based cata- lytic device for Ford's '74 cars Aug-	July	28	15
11-16	Dec	15	39
GM engineers find national air quality standards are too restrictive N	July	7	27
Griffin, Sen., backing a bill that would give auto makers antitrust immunity for cooperative research in meeting	July		2,
antipollution standards set for '76 models N	Sept	22	17
models	Nov	24	33
Mangenese-based catalyst to control auto exhaust pollutants N	Sept	8	40
N.Y.C. new air quality code bans use of leaded fuels after Jan, '74 N	July	21	49
PPG system to trap particulates from automotive exhaust developed N Catalytic auto muffler use could spark	Sept	22	74
a platinum boom (charts) CSMA's Transportation Products Div.	Aug	11	16
'70 survey	Dec	15	42
outlets for plastics, fibers Lead additives see Gasoline Plastics in '72 models – No big gains;	Aug	4	10
auto makers ask suppliers to roll back prices to '70 levels	Sept	15	41
Wage-price freeze program could hurt U.S. auto industry	Sept		13
West German auto sales still sluggish . N		22	19
Awards Du Pont wins Kirkpatrick Award for			
Permasep filter development Hochwelt, Carroll receives '71 Chemical Industry Medal	Oct	6	14
SAACI's 50th anniversary; will present its first Man-of-the-Year Award to Mill-	Oct	13	23
master Onyx Chairman Robert Milano	Oct	13	25
В			
Bacteria - Cesco uncovers four new bac- terial strains that might accelerate bio-			
degradation of hydrocarbon wastes 1 Bactericides – Hexachlorophene: FDA's			47
warnings against use crimp sales	Dec	15	22

Bagasse — Grace preparing a new process to make newsprint from bagasse	Sept	29	21	1
Banner, Donald — Candidate for U.S. Patent Commissioner N	Sept Nov	15 17	13 65	
Barges	INOV	17.	05	
Plastic spheres will be used to reclaim a 2,400-ton barge from the Gulf of Mexico	Aug	18	88	
Transportation new frontier for innova- tion – report. John Winton (chart &				
table) Barium – PPG will shut down barium car- bonate and barium chloride units at	Sept	29	53	
Natrium, W.Va. Battelle Columbus — R&D spending heads	Oct	13	22	
up	Dec	15	36	
Battelle Memorial Institute Biodegradable ceramic may make surgical				
bone grafting obsolete N EPA grant to study the potential useful- ness of rubber from discarded tires in blacktop dressings for driveways and	Dec	8	43	
parking lots	July	28	18	
curacy of air pollution measure- ments	Sept	15	29	
Battelle Northwest - Overflow treatment system	Oct	13	71	
Belgium ABS plant planned by Monsanto N	Sept	1	5	
AKU-Goodrich plans polymer plant at Geel R Chemical exports increase 22% in first quarter of '71; estimates U.S. 10% sur-	July	7	15	
charge will affect only about 3% of	Oct	13	31	
nation's export business N European plant sites report (map, chart, table)	Oct	25	30	
Graphite electrode plant near Liege R LDPE plant in Antwerp capacity	Sept	15	24	
Producers plan to visit USSR in an effort to expand trade and technical co-	Sept	29	27	
operation	Nov	24	43	
expanding	Dec	1	29	
pleted	July	28	18	
timer Solvay's chairman Jacques Solvay: Jogger runs Belgium's biggest chemical	Sept	29	29	
maker	Sept	29	68	
Deutsche Marathon will add unit at Burghausen, W. Germany, refinery Market outlook: U.S. Tariff Comm.	July	28	15	
Output continues to decline – U.S.	July	21	39	
Tariff Commission report N Prices N Production: U.S. Tariff Comm. re-	Nov	7	23 34	
port	Aug	25	37	
U.S. Tariff Comm. report N Benzenoid imports see Tariffs	Oct	20	55	
Benzyl Cyanide — Prices N Beryllium — Emission standards for mer- cury, beryllium and asbestos set by EPA	Aug	11	18	
are under review N Beverages – Sweden's NIPH stops use of	Oct	6	71	
diethylpyrocarbonate as a drink pre- servative N Bins, vibrating, offer new ways to keep	Sept	1	43	
bulk solids moving Bismuth – Chemicals prices N	Aug Sept	4 29	35 37	
Blending — In-line blending eliminates tanks and complicated piping for mixing chemical products (flowsheets)	Nov	24	35	
nique adapted for use in blood oxygena- tion	Sept	22	69	
Boats				
Nomex as boat-building material				
Plastics Boilers – European boiler treatment com- pound, Panorin, making bid for the American market		27	41	
Bolivis New military regime is seeking foreign investments to develop its mineral re-				
Oil and petrochemical joint-venture possibilities with Costa Rica dis-			19	
cussed	July	21	35	
Kanematsu Gosho falls through N Bonding — Upjohn's Fine Chemicals Div. develops Photozid, light-sensitive polymer	July	21	35	
that bonds itself to other ma- terials	Oct	6	48	
and borax unit near Madras, India	Sept	15	23	

Boron — Under fire because of alleged harmful effects to vegetation, and inter-			
ference with sewage-treatment proc- essing	Nov	10	61
ironed out first Bott, Lawrence - Nalco's new chairman and chief executive officer. He feels that	Aug	4	11
ethics are as vital to a company as profits	Aug	4	40
Bottles Ilikon develops "disintegrating bottle" that dissolves when empty Ilikon technique for injection-blow-	July	21	13
molding of bottles by hydroxypropyl- cellulose	Dec Oct	8 27	49 29
Brazil Alcoa jungle lab is on its way to analyze mineral deposits N	Aug	18	88
mineral deposits	Oct	13	31
petrochemical buildup (tables)	Sept Sept	1	14
Melamine plant at Salvador, Bahia R Petrochemical buildup on two	Sept	15	24
Tire plant at Americana	July	7	45
icals to 1/3 of total investment N Brill, Richard – Whittaker's senior v-p: Says Pacific horizons aren't as lush as	Sept	29	27
Chemical ones	Nov	3	64
with silicon carbide called Poly-Grit Butadiene	Nov	24	31
German plant addition	Sept Nov	1 3	16 41
Spain. Calatrava's plant will use	Oct	20	30
Japanese process	Sept	15	31
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C			
Cairns, Theodore - Du Pont's Central Re- search Dept. director: No four-day week			
for this research chief	July	28	48
Fiberglas N Calcium Borate — First commercial domestic shipment of calcined colemanite from Tenneco Oil to Owens-Corning	Aug	11	39
Fiberglas N Calcium Chloride	Aug	11	39
Prices	Dec	22	27
off Calcium Cyanamide — Hoechst drops pro-	Nov	24	29
duction N Calcium Hypochlorite – Prices N	July Dec	7 22	40 27
Calcium Phosphate – Multi-Minerals' plant in Canada	July	28	15
at Gloucester City, N.J.	Oct	20	22
Canada Acada Fisheries, only supplier for a FPC plant at Canso, Nova Scotia, goes bankrupt	Sept	15	17
Calcium phosphate plant	July	28	15
charge N CIL sells interest in Millhaven, pulls	Sept	29	27
out of fibers Canadian roundup Chemical makers would swap energy for access to U.S. markets — A neat	July Dec	7	41 21
Canadian caper — report (charts & table) Slave to fashion — letter Du Pont of Canada, CIL and Chemcell	Aug Sept	11 22	25 5
report increased sales and earnings in the first three quarters of '71	Nov	10	19
Dow and Polymer Corp. con- sidered N Gulf Canada's McAfee: "Disastrously low	Sept	1	13
profitability" leads to chemical cut- backs Mainland China wants to boost trade with	Aug	25	13
Canada, but would eschew dealing with Canadian subsidiaries of U.S. com- panies N	July	14	40
Nova Scotia initiates bankruptcy proceed- ings against Cardinal Protein N Petrofina of Canada will temporarily close	Nov	3	23
metal powder operation at Pointe-aux- Trembles, Que	Oct Dec	13	57 29
ports of styrene-butadiene rubber by Goodyear be considered dumping of the	Sept	1	33

Polymer Corp. building housing sys-				
Polymer Corp. building housing sys- tems plant at Milton, Ont	Nov	3	46	
dissolving pulp mills in Canada N	July	7	10	
Saskatchewan's new administration worries potash producers N Saskatchewan's new government will take	July	7	33	
a strong role in the potash industry . N Shell revives palns for polypropylene	Dec	22	27	
Sulfur: Alberta's government will issue	Oct	13	31	
guidelines for sulfur producers N Sulfur: Alberta's stockpiling program is	Aug	4	28	
dead	Nov	24	23	
could hurt U.S. firms	Dec	1	18	
Campetothecin, potential anticancer com- pound synthesized at Columbia				
"Conquest of Cancer" agency called for	Aug	18	87	
to spearhead the attack on cancer DDT may be able to slow the growth	Sept	15	37	
of a specific cancer N Israeli diagnostic test for cancer evalu-	Sept	8	40	
Johns Hopkins Univ. scientists report that	July	28	40	
carcinogenic materials appear to form free radicals	Sept	22	69	
Caprolactam				
Colombia-Venezuelan unit at Barranquilla	Dec	1	21	
Licensintorg offering technology for the production of caprolactam by oxida-				
tion of cyclohexane N Turkish plant will use Inventa	July	14	23	
process	Sept	1	16	
Carbon particles and cultur disvide man				
Carbon particles and sulfur dioxide may lower man's ability to fight infection says Penn. State's Zarkower N				
Lehigh Univ. conference highlights govel	Dec	8	43	
forms of carbon	July	21	24	
fibers	July	28	15	
molecular-screening activated carbon for separating hydrocarbons and other com-				
pounds	Aug	18	87	
Carbon Dioxide - Venezueian piant	Sept	15	23	
planned by Gascarb	Aug	4	19	
Catalysts Air Products and Haldor Topsoe joint				
venture	Dec	8	19	
double platinum demand by '76 (charts)	Aug	11	16	
Desulfurization catalysts plant at Niihama, Japan	July	28	15	
device for Ford's '74 cars Aug 11-16 N	Dec	15	39	
ICI develops dual-catalyst system for autos	Nov	24	33	
Kellogg and British Gas Council: sub- stitute natural gas technology cross- licensing arrangement N	Aug	18	88	
auto exhaust pollutants developed by		8	40	
Eric Robinson	Sept	0	40	
platinum hydrogenation catalyst Soviet process for the production of pelleted catalyst for the synthesis of	July	21	24	
methanol and isobutanol license				
offered N Support system for platinum gauze	July	14	23	
catalyst for nitric acid plants N UOP fluid-bed cracker for Poland ap-	July	28	39	
UOP's Logan: Hoping the company's	Sept	8	14	
single converter can cut two types of emissions	July	28	15	
Caustic Soda				
Chlorine-caustic picture upset by needs of developing countries (charts) GAF suspends manufacture of liquid	July	28	22	
chlorine and caustic soda at its Linden,				
lems Indian plant under construction	Oct Sept	6 22	13	
Prices going up	Dec	18	17	
pinpoints his problems	July	21	29	
Cellulose French aid in building plant in				
Russia	Aug	18	31	
Ilikon's "disintegrating bottle" has layer of hydroxy propyl cellulose	July	21	13	
Monsanto process for making cellulosic	Aug	25	47	
materials fire retardant N Centrifuges — Designed for dewatering chemical plant wastes, centrifuges can cut				
the costs of secondary treatment and incineration	Dec	15	37	

Ceramics Biodegradable ceramic may make surgical			
bone grafting obsolete N Decal system, Roll-Mark, will boost con-	Dec	8	43
sumption of decorated ceramic tile	Aug	25	51
GE-MOV metal oxide varistors — new family of semiconductors N	Dec	22	31
Chemical Industries Assn. (U.K.)			
John Bull bearish on chemicals U.K. chemical industry faces problems	Nov	24	51
of harmonization of British laws with those of the Common Market N	Nov	24	43
U.K. metrics advance	Oct	20	29
Chemical Specialties Manufacturers Assn. — Government regulations head list of			
topics at meeting	Dec	15	42
ter - MCA sets up a new means of pro-			
viding safety information to those han- dling hazardous chemicals N	Sept	8	25
Chemical Week Reports			
Chemicals in coatings, Dikran Yazujian			
(charts & tables)	Oct	20	35
and pitfalls of building a plant in Europe (maps, charts, table)	Aug	25	23
Maintenance management sharpens its	riug	20	-
skills to meet profitability challenge. Kenneth Brooks (charts & tables)	Dec	1	45
The man in the middle is doing fine. Donald P. Burke (charts & tables)	July	28	32
A neat Canadian caper (charts & table) . Plant sites '71. J.M. Winton (charts &	Aug	11	25
tables)	Oct	13	35
Transportation new frontier for inno- vation, John Winton (chart & table)	Sept	29	53
West Germany: Up goes mark, down		22	33
go German profits (charts) Will Heath's pump-priming spark British recovery? (tables)	Sept		
British recovery? (tables)	Oct	6	37
Chemical Week Special Nadar vs. Du Pont			
The Raiders throw the book at			
Du Pont	Dec	1	31 35
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Du Pont answers the charges of	Dec	1	36
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Preview: What to look for at the biennial extravaganza	Nov	10	30
N.Y. is a Christmas shopping paradise	Nov	10	38
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Chile			
Nationalization of Industrias Quimicas Du Pont asked	Nov	3	17
Du Pont asked R Nationalization of U.S. copper opera- tions: how much will Chile pay?	July	21	15
dovernment payments will be based on		28	10
Washington takes dim view of decision	July	20	10
not to compensate Anaconda and Kennecott N	Oct	20	17
Petroquimica Chilena contracts Lummus' British subsidiary to design and engi-			
neer a \$40-million petrochemical com-	Cont	15	21
plex at Concepcion N	Sept	15	21
China, Communist Alcan Aluminium's first sale to China . N	July	28	29
Canada's Polymer Corp. chairman Rowzee says Communist China could			
be a market for Western chemical tech-			
nology, particularly for production of man-made fibers N ICI sends seven-man-mission to Peking , R	July	28	29
ICI sends seven-man-mission to Peking . R Japan to try to boost trade with main-	Dec	1	21
land China N Oct 27-43 N	Nov	17	31
Japanese-Chinese fetilizer agreement . N Kerosine price war in Hong Kong? N	Sept	8	29
Mainland China trade could open door for U.S. age chemicals	Aug	18	29
Mainland China wants to boost trade with			
Canada, but would eschew dealing with Canadian subsidiaries of U.S. com-	lister.	14	40
panies	July	14	40
chloride from Japan: buying and selling oriental style	Aug	25	20
Nixon's planned China visit will affect U.S Soviet relations N	July	22	51
Wants to export oil to Sweden N	Sept	22	51
China, Nationalist			
PE expansion plans approved R Taiwan: Oriental Chemical Fiber will	Dec	22	21
build polyester filament plant R	July	7	45
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Taiwan Vinyl Chloride Corp. units at Kaohsiung	July	21	33
Kaohsiung R Chlor-alkali – Indian plant R Chlordane – EPA probing pesticides	Sept	15 27	24 17
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permit big savings in making chlorinated paraffins . N Dec 1 43 Zhiorine Chlorine-caustic picture upset by needs of developing countries (charts) . July 28 22 GAF suspends manufacture of liquid chlorine and caustic soda at its Linden, N.J., plant because of mercury problems . Oct 6 13 Kymin plant planned as Finns take petrochemical plunge (table) . Aug 4 17 Chloroform — Spain's Dequisa plans plant . N Sept 15 21 Chromium — Scovili Mfg.'s process for saving plating wastes . Sept 15 29 Citric Acid — Pizer studies plant near . Sept 15 29 Southport, S. Gweetner without calories Dromiesed by citrus-peel extract, neohesperidin dihydrochalcone (NHD) . July 21 21				
Chlorine Chlorine Chlorine caustic picture upset by needs of developing countries (charts)	Chlorination — Wintershall's process will permit big savings in making chlorinated			
Chlorine-caustic picture upset by needs of deweloping countries (charts) July 28 22 (SAF suspends manufacture of liquid chlorine and caustic soda at its Linden, N.J., plant because of mercury problems caustic soda at its Linden, N.J., plant because of mercury problems caustic soda at its Linden, N.J., plant because of mercury problems caustic soda at its Linden, N.J., plant because of mercury problems caustic soda at its Linden, N.J., plant because of mercury problems caustic soda at its Linden, N.J., plant because of mercury problems caused the problems cause		Dec	1	43
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Thermo-Lag Aug 11 19 Superfinishes: thermosetting costings bid for furniture market Dec 8 31 Titanium disoxide producers see coatings business improvement as key to solving cost and marketing problems (chart & table) Dec 22 23 Coke Depressed market causes cutback in steel-mill coke operations Sept 8 14 Petrocokes Ltd., will increase capacity of its electrode- and steel-grade coke plant	Confound graffiti artists	Aug	11	10
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business improvement as key to solving cost and marketing problems (chart & table)	Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31
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Depressed market causes cutback in steel- mill coke operations Sept 8 14 Petrocokes Ltd., will increase capacity of its electrode- and steel-grade coke plant		Dec	22	23
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pound, camptothecin N Computers	Aug	18	87
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Housing: five-year boom is a promising prospect for the process industries	Aug	18	26
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Oil's building boom: What gasoline re- fining changes meen for chemical plants	Aug		
(chart)	Sept	1	6
Polyester-resin reinforced "paper" houses	Nov	24	18
approved by FHA	Aug	11	11
sharply during the '70s N Reinforced plastics are making new in- roads into the construction market . N	July	14	33
U.S. construction costs up Dodge re- ports	Nov	17	24
U.S. expenditures	Aug	7	36
Containers			
Detroit's program to recycle glass con- tainers may be stymied FDA sets container standards for polishes and aspirins: probe of other	Aug	11	10
chemical packaging set	Sept	15	16
ducer, diversifying into plastics N NYC' 2¢ tax on plastic containers bat- tle July 7-12, Sept 8-17, Sept 29-24,	Dec	15	17
Tax ruled "unconstitutional, invalid and	Oct	20	21
PE for molding beer cases N	Nov Dec	17	24 29
Tokomak not perfectly circular and it is this imperfection that results in heat	July	14	23
loss, says Gulf scientists N Contractors — Capital spending: Contractors predict '72 upturn (chart)	July	28	44
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Chemical industry's move to win higher prices will gain momentum N	July	28	21
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Construction contracts in July R Construction contracts up in October reports F.W. Dodge Controllers — EPA standards: new sulfuric plants should have little trouble meeting	Dec	8	
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Construction contracts in July Construction contracts to in October re- ports F.W. Dodge Controllers – EPA standards: new sulfuric plants should have little trouble meeting air standards, but nitric plant designers face a tougher task Controls – Solid-State panel instruments, called Quick-Scan 1300, debut N Copolymers Concoo Plastics discontinues PVC copolymers production Dow Corning introduces wetting agents based on silicone glycol copolymers N Ethylene-vinyl acetate criss-cross strips lengthen ski season near Bergamo,	Sept Nov	1 17	44 65 29
Construction contracts in July Construction contracts to in October re- Construction contracts up in October re- ports F.W. Dodge Controllers – EPA standards: new sulfuric plants should have little trouble meeting air standards, but nitric plant designers face a tougher task Controls – Solid-State panel instruments, called Quick-Scan 1300, debut N Copolymers Concoo Plastics discontinues PVC copolymers production Dow Corning introduces wetting agents based on silicone-glycol copolymers N Ethylene-vinyal acetate criss-cross strips lengthen ski season near Bergamo, Italy Montedison develops new tetrafluoro- Montedison develops new tetrafluoro-	Sept Nov Dec Dec	1 17 8	44 65
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Construction contracts in July Construction contracts in on Cotober re- Construction contracts up in October re- ports F.W. Dodge Controllers – EPA standards: new sulfuric plants should have little trouble meeting air standards, but nitric plant designers face a tougher task Controls – Solid-state panel instruments, called Quick-Scan 1300, debut N Copolymers Concoc Plestics discontinues PVC copolymers production Dow Corning introduces wetting agents based on silicone-glycol copolymers x Ethylene-vinyl acetate criss-cross strips lengthen ski season near Bergamo, Italy Montadison develops new tetrafluoro- ethylene-ethylene copolymer, TE N Copper	Sept Nov Dec Dec	1 17 8 15	44 65 29 39

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Trade shows: how to cut display costs by avoiding overtime, reducing space and shipping weight, designing reusable				Surface-active agents developed by IIT show promise of eliminating the need for phosphate in home laundry de-			
White House task force is overseeing a study on the economic impact and cost of massive pollution control	N Nov	3	14	Monphosphate detergents hurt sodium tripolyphosphate output N	Nov	3	23
West German legislation would mean pollution control cost will be \$2.2 billion in next five years		4	20	Washington hearings: CU's Lushbough urges a return to soap while industry develops a safe phosphate replace-	Aug		
The pace keeps quickening — CW's sec- ond annual survey (table)		8	31	of nonionic surfactants	Sept	18 8 18	35 5 39
Netherlands' expenditures will in- crease		8	40	Nonphosphate detergents boost the use	July	28	21
Netherlands: Gulf may have to spend \$1 million to lessen noise and optical pollution problems at Rozenburg	N Sept	8	19	ports . N Evidence that soda ash and silicate is a poor and dangerous replacement for phosphate in detergents continues to	July	7	9
billion	N Aug Nov	11	14 65	controversial due to series of in- dustry-supported interim re-		-	-
off of pollution control equipment. N Five-year cost estimate to clean up pollution in the U.S. is \$105.2		24	14	hold cleaning products: Economics Laboratory's dishwasher detergents Detergent phosphate replacement NTA issue could become even more	Aug	25	13
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(chart)	Sept	1	6	Boron under fire because of alleged harmful effects to vegetation, and inter- ference with sewage-treatment proc-			
could run to \$1 billion Oil's building boom: What gasoline re- fining changes mean for chemical plants	Aug	11	35	Detergents	9		,-
Metric system changeover recommended by Commerce's Stans, for CPI tab	Dec	1	45	Maine environmentalists defeat proposed desulfurization project of Maine Clean Fuels, Inc.	Aug	4	12
Maintenance management sharpens its skills to meet profitability challenge — report. Kenneth Brooks (charts &				Europe's first plant for desulturizing heavy fuel oil will be built in Gothenburg, Sweden R Japanese plant at Niihama R	Oct July	27 28	19 15
Maintenance costs are climbing: SEC data (table)	July	7	19	Desulfurization Europe's first plant for desulfurizing			
cal plant wastes can cut the costs of secondary treatment and incineration . Lead-free gas: new study says EPA's costs for lead-free gas are too low (table)	Dec	15 13	37 59	Desalting see Water Treatment Desserts — Gelling agents find a new market in frozen desserts in France	Aug	18	43
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Costs Airplanes: costs of operating private air-	July	21	35	fast takeoff Denmark – PVC plant Deodorants – Nader wants FDA to tighten control on soaps and deodorants con-	Nov	24 28	29 15
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Talcum powder: FDA analysis finds as much as 25% asbestos content in samples of two leading brands of talcum	Ady			waste waters	Aug	4	33 25
Natural cosmetics will make solid market gains during the decade Proteins add muscle to toiletries and cosmetics	Dec	22	36 21	EPA will hold hearings on cancellation or remaining uses N Aug 11-39 Envirogenics pilot plant will remove even the traces of DDT from industrial	Aug	25	15
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UC's corrosion-inhibitor system could slash production costs in ammonia plants	Aug	4	32	Illinois	Aug	8	33
European boiler treatment compound, Panorin, making bid for the American market	Oct	27	41	Biodegradable versions of DDT devel- oped by researchers from Univ. of			
downtime (table) Dow reveals pricing system for corrosion inhibitor system for ammonia and hydrogen plants using monoethanolamine stripping	Oct	13	71	plant R	Aug	4	19
Ammonia: mechanical design techniques and corrosion inhibitors cut plant downtime (table)	Oct	13	77	Prices	Oct	20	55
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Corfam Du Pont's Corfam goes to Poland New poromerics rush in where Corfam	Nov	17	22	dle is doing fine — report. Donald P. Burke (charts & tables)	July	28	32
projects doubling of copper production rate and sharp uptrend in earnings	Oct	13	27	Cyclamates — Bill would reimburse cycla- mate manufacturers for losses incurred under cyclamate ban Cyclic Intermediates: The man in the mid-	Oct	6	13
Strikes see under Labor — Copper strikes U.S. Smelting Refining and Mining	Sept	15	29	FDA proposes ban on household products containing cyanide salts	Oct	20	23
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Kennecott cutting back its operations at Salt Lake City	Nov	3	18	plastics division says reduced operating costs, new product mix will boost its earnings 7-10% through '80	Oct	20	57
Kennecott N Kennecott and Amax wrangle with Puerto Rico over copper mining terms .	Oct	20	17	Union Carbide's Group 1: chemicals and	Aug	4	32
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Agreement to limit phosphorous to		-	
8.7% in detergents N P&G makes pitch to kill ban	July Nov	24	10
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P&G challenges a blast by Purex that the industry was pushing phosphate-			
Phosphates are back in favor; the ban on	Aug	18	25
NTA continues Phosphate coming out of the fog? –	Sept	22	20
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Alza Corp, scientist V. Place says some foods eaten while taking certain medi- cations can be harmful or even			
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Detergent phosphates, detergents see	Sept	29	42	tion, Water Pollution or specific prod- uct — Herbicides, Insecticides etc.			
Detergents Dow's Earle Barnes warns on environ-				Enzymes — Can enzymes clean up pheno- lic waste problems?	Sept	22	63
mental curbs on chemicals	Oct	20	21	Epoxies see Resins Epsom Salt — Prices	Dec	22	27
business"	Aug	18	27	provides several times the useful life span of previous fuels N	July	7	27
(ERTS) will eye pollution, test the latest monitoring gear	July	14	20	F-14			
1899 Refuse Act see Water Pollution Energy and clean air not as incompatible				Ethylene plants of the future: new ac-			
as some environmentalists would have one believe says Shell's Bridges	Dec	8	20	cent on heavier feedstocks Europe's ethylene producers may switch	Sept	15	31
European nations consider curbs on North Sea waste disposal (map)	July	7	24	from naphtha to ethane N NGL demand puts squeeze on chemical	Nov	17	31
Fertilizer rules costly says Agrico's Layton		13	20	plants based on ethane and propane	Oct	6	10
at FI conference Foliage and soil are new "instruments"				Pipeline across Port Phillip Bay, Australia, delayed N	July	7	40
for measuring pollution Hercules' Brunswick, Ga., naval stores	Oct	20	61	Prices	Sept	22	56
plant cleaning up pollution problems Illinois holds pivotal hearing for setting fertilizer use limits	Aug	25	19	liquid ethane	July	7	15
International Paper's Ticonderoga mill doesn't smell: pollution control to		,		Du Pont, Dow and Polymer Corp. considering a joint venture in			
prevent the characteristic kraft-mill odor and to treat plant effluent	Dec	1	41	Canada	Sept	17	2:
green plants might make sophisticated pollution detectors	l Aug	25	47	Ethyl hires Kellogg to begin study of ethylene production facilities at its	1404	.,	2
Maine environmentalists defeat pro- posed desulfurization project of Maine Clean Fuels, Inc.	Aug	4	12	chemicals manufacturing plant on the Houston Ship Channel N Europe's ethylene producers may switch	Sept	8	
MCA's meeting discusses big problems:	-			from naphtha to ethane N	Nov	17	3
	Dec	1	16	Finland takes petrochemical plunge; Neste plans ethylene plant at Porvoo (table)	Aug	4	1
profits, pollution, power	. Aug	4	24				
3M's Ling says industry is taking a bad rap on pollution				Gulf Coast plants: some may not be			
3M's Ling says industry is taking a bad rap on pollution		14	23 53	Gulf Coast plants: some may not be built after all . N Italy's national chemical plan Japan will be using locally developed		17 15	1

Netherlands environmentalists protesting rebuilding of Marbon ABS plant; Rozenburg order to close Gulf's new			
ethylene plant in Rotterdam pro- tested	Aug	25	20
development, J. M. Winton (table) Plastics disposal: Researchers try to	Oct	13	50
develop degradable plastics for pack- aging	Dec	8	45
	July	28	26
off of pollution control equip- ment	Nov	24	14
Five-year cost estimate to clean up pollution in the U.S. is \$105.2 bil-	A	-11	1.4
How to save on pollution outlays -	Aug	11	14
Netherlands: Gulf may have to spend \$1 million to lessen noise and optical pollution problems at Rozenburg	100		00
ethylene plant N Netherlands' expenditures will in-	Sept	8	19
crease N The pace keeps quickening — CW's sec-	Sept	8	40
ond annual survey (table)	Sept	8	31
pollution control cost will be \$2.2 billion in next five years N White House task force is overseeing a	Aug	4	20
study on the economic impact and cost of massive pollution control . N	Nov	3	14
Republican politicians fighting over who gets 10 environmental regional directorships	Aug	4	16
I ennessee-Tombigbee waterway: EDF sues to block construction on environ-	July	21	9
Toxic Substances Control Act N July 28-	Aug	11	14
Now in the making — tough law Hazardous Substance Act, Amend- ment 338 to S.1478; death knell for	Oct	13	19
small chemical companies? N Toxicity: worldwide toxicity test for	Nov	10	75
chemicals instead of the current na- tional ones possible N Toy makers are taking advantage of the	Nov	3	51
growing interest in ecology, offer test kits, games, inexpensive monitoring devices	Dec	22	34
exchange of environmental informa- tion	July	28	40
U.S. Court of Appeals rules that the AEC must give more weight to en- vironmental factors for the nuclear			
power plants it licenses Waste recycling see Waste Utilization nvironment see also Air Pollution, Waste	Aug	4	32
Utilization, Water Pollution			
nvironmental Protection Agency Ruckelshaus: Cool politician patrols vast			
Regulations, standards etc. see Air Pol-	Oct	6	56
lution, Environment, Waste Utiliza- tion, Water Pollution or specific prod- uct — Herbicides, Insecticides etc.			
nzymes - Can enzymes clean up pheno-	Sept	22	63
lic waste problems? poxies see Resins psom Salt — Prices Provides coveral times the useful life.	Dec	22	27
bigaines seacial fillies file asoldi lile			
span of previous fuelsN	July	7	27
Ethane Ethylene plants of the future: new ac-			
cent on heavier feedstocks	Sept	15	31
from naphtha to ethane N NGL demand puts squeeze on chemical	Nov	17	31
Pipeline across Port Phillip Bay, Australia, delayed	Oct	6	10
Shell's Texas expansions to recover	Sept		59
liquid ethane	July	7	15
Du Pont, Dow and Polymer Corp. considering a joint venture in			
Canada	Sept	1	13
N Nov 10-13	Nov	17	23
chemicals manufacturing plant on the Houston Ship Channel N	Sept	8	9
Europe's ethylene producers may switch from naphtha to ethane N Finland takes petrochemical plunge;	Nov	17	31
Neste plans ethylene plant at Porvoo (table)	Aug	4	17
Italy's national chemical plan	Nov Dec	17 15	17 31
Japan will be using locally developed	-		

Japan will start up three plants early next year	Oct	27	19
next year	Sept	1	16
order to close new ethylene plant N Gulf may have to spend \$1 million to	Aug	25	20
problems	Sept	8	19
	Oct	6	15
Osage Chemical plans plant at Beaumont, Tex N	Aug	4	6
Plants of the future: new accent on heavier feedstocks	Sept	15	31
Production: U.S. Tariff Comm.	Аца	25	37
Russia: pipeline system will link ethylene complex at Nijnekamsk with Kazan . N	Sept	8	19
Union Carbide boosts ethylene amine capacity at Taft, La., plant N	Sept	1	33
Ethylene Glycol			
Ethylene Glycol Antifreeze market warms (chart)	July Nov	21	37 21
Ethylene Oxide			
GAF closing oxide unit at Linden, N.J. N Northern Petrochemical's plant at Joliet, Ill., shut by an explosion in heat ex-	Nov	10	13
changer N	Nov	24	23 21
changer . N Rumanian plant planned . R UC to close Texas City unit . N Ethylene-Vinyl Acetate – Plastic "snow". EVA criss-cross strips lengthen ski sea-	Sept	8	25
Ethylene-Vinyl Acetate – Plastic "snow". EVA criss-cross strips lengthen ski sea- son near Bergamo, Italy	Sept	1	11
Europe			
ABS markets (chart)	Aug	25	39
the aluminum market - Alufir ace and	Aug	11	18
Chemical makers are becoming more		8	25
Common Market, timetable for British		3	43
entry N Common Market U.K. producers see long-range benefits in Common	Nov	3	43
Market entry	Oct	27	45
Energy Policy N Ethylene producers may switch from	Dec	1	43
naphtha to ethane N EEC report says Europe faces a possibly	Nov	17	31
serious recession as a result of U.S.			
Oil companies, ELF-Erap, AGIP, and			
Petrofina will pool research efforts in petrochemicals	Dec	15	33
Patent office could begin functioning in '76	July	14	23
falls of building a plant in Europe (maps, charts, table) Profits fall for Europe's chemical	Aug	25	23
giants; ICI bucks trend (table)	Oct	27	51
Exploration — Philippine Geothermal to explore for geothermal energy (natural	Dec	22	24
steam or hot water) in a volcanic area in SE Luzon	Sept	29	24
Explosions			
Du Pont's Moosic, Pa., explosives plant damaged by blast will shut down pro-			
duction except for immediate DOD	Aug	11	10
orders	Sept	1	4
blending plant explosion	Sept	8	16
by ignition of vapors from cleaning solutions	Aug	4	11
Mobay's nitric acid unit at New Martins- ville, W. Va., explosion	Nov	17	24
by an explosion in a heat ex-			
changer	Nov	24	23
revealed	July Sept	7	33
Petro-Tex's purification system in the main butadiene unit at its Houston	Sopt		55
plant damaged by fire and explo-			
VCM tank cars explode as 18 cars of	Sept	22	59
Missouri Pacific freight train derail in Houston, Tex.	Oct	27	
Explosives Chile asks for nationalization of Indus-			
trias Químicas Du Pont	Nov	3	17
duction except for immediate DOD	Aug	11	10
orders	Sept	1	4
Exports Aluminum in a slump (charts)	p1	17	AE
ASP see Tariffs	VOV	17	45
American Standard's Eberle: Nixon choice to head U.S. trade negotiating	6		
team	Oct	6	13

lalance-of-trade Chemicals key in trade balance (charts) .	Aug	4	26
Dock strikes have darkened U.S. bal- ance-of-trade picture	Dec	8	20
Government charts point up R&D's role in trade	July	7	28
role in trade	Aug	4	4
Imports up, exports dip Nixon given emergency authority to impose broad new curbs on imports, including a hike in the surcharge to	Sept	8	16
15%	Nov	17	24
Plus for chemicals — Commerce Dept. data	Nov	10	18
may some lively topics in Con- gress in September	Aug	11	5
ing swiftly	July	7	10
Belgian chemical exports increase 22% in first quarter of '71 N Chemical and allied product shipments are up and inventories are down —	Oct	13	31
Commerce Dept. report (chart)	Sept	15	17
to Sweden	Sept	22	51
needs help to make it more competi- tive at home and abroad N	Aug	4	6
East-West trade Boost in Soviet trade with the West	Aug	,	U
is expected to result from the visits, by top Soviet leaders to Algeria,			
Canada and France N Canada's Polymer Corp. chairman	Nov	3	43
Rowzee says Communist China could be a market for Western chemical technology, particularly for production of man-made fibers N			
	July Aug	28 18	29
Nixon's authorization of Export-Import Bank credits for sale of U.S. goods to Rumania viewed as preliminary move	, and	,,,	
to granting the same to the USSR , N Nixon's planned China visit will affect	Dec	15	35
U.S. Soviet relations	July Oct	28 20	18 29
Russians set to trade?	Nov	17	38
agreements with Hoechst and Henkel N	Nov	24	43
built ships and grain farm equipment for Russian natural gas and oil N U.S. delegation representing chemical	Dec	8	14
engineering and equipment firms off to Russia and Rumania N	Nov	3	43
year slump (charts)	Sept	15	27
letter Foreign traders urge return to multi- lateralism, dropping of surtax	Dec	15	5 17
Great Britain: John Bull bearish on	Nov	24	51
chemicals	Aug	18	31
Hong Kong's new plan for limiting ex- ports of man-made and woolen textiles to the U.S. is "totally unacceptable"	Aug	10	31
to Washington N	Sept	22	17 19
Israel's chemical exports	oct	21	
Japan signs a new five-year trade pact	July	14	43
Japan to try to boost trade with	Oct	26	43
Japan's edge in chemical trade: Fair or	Nov	17	31
foul? (charts)	Aug	18	23
Japanese textiles: How much will	Sept	1	5
textile pact hurt? MCA's midyear meeting: the international monetary and trade crises and	Nov	10	87
the impact on chemical companies' foreign and domestic profits N	Nov	24	13
McCracken spells out figures behind Administrations's policy shift NFTC survey reports U.S. overseas pro-	Sept	29	22
duction has not cut U.S. exports	Nov	24	17
Pemex builds for export Presidential Commission on International Trade and Investment policy report doubtless will add to the monetary	July	7	44
controversy	Aug	18	18
mends repeal of ASP valuation sys- tem	Sept	22 17	24
	Nov	17	5 21
Textiles in the red: Commerce Dept. 10-month import-export figures Trade bill see Tariffs – Trade bill	Dec	22	14
Trade negotiating authority for the President may be broadened	Dec	15	23
U.S. chemical trade in August - Com- merce Dept. figures	Oct	6	12
Expositions Chemshow '71 Preview: What to look for at the			
biennial extravaganza	Nov	10	30

N.Y. is a Christmas shopping paradise	Nov	10	38
for Chemshow visitors Exclusive in CW: Floor plans that show			-
who's exhibiting where	Nov	10	40
addresses, booth numbers	Nov	10	48
take the floor	Dec	8	41
will feature new products, tech-		10	**
nology Oct 27-41	Nov	10	19
by avoiding overtime, reducing space and shipping weight, designing reusable			
booths	Nov	3	49
F			
Farmer, Thomas — Borg-Warner's new president of chemical and plastics group:			
At home in lab, in boardroom - and	Dec	1	56
Fatty Acids - Chemicals in coatings -	000		00
report. Dikran Yazujian (charts & tables)	Oct	20	35
Federal Power Commission			
Bows to producers, grants gas price boosts in the Southwest	Nov	10	20
Louisiana rate case hearings may re-	1040		
sult in ouster of Nassikas as chairman of FPC	July	21	12
Lousiana natural gas price increase ap- proved; Congress looks at FPC poli-			
cies	July	28	16
own estimates of natural gas reserves	Aug	11	9
Federal Trade Commission — Challenges ads of Procter & Gamble and Firestone	Sept	8	12
Fermentation - Upjohn's fermentation and chemical conversion plant in			
Puerto Rico R	Dec	8	19
Fertilizer Institute			
Annual conference: Agrico's Layton says environmental concern, restrictions			
bother fertilizer makers	Oct	13	20
3%	Sept	8	25
tion, sales, prices, etc N Fertilizer sales N Aug 11-18 N	Oct	6	43
Fertilizer sales N Aug 11-18 N Illinois holds pivotal hearing for setting	Oct	13	57
fertilizer use limits	Sept	1	11
Fortilizers			
Australia's fertilizer industry faces con- tinued profit drought	July	14	43
Dawood Hercules Chemicals will close	outy	1.3	40
Lahore, West Pakistan plant tem- porarily	Dec	15	33
Domestic fertilizer disappearance up 3% N	Sept	8	25
Environmental concern, restrictions bother fertilizer makers — Agrico's			
Layton at FI conference	Oct	13	20
Exports ready to end two-year slump (charts)	Sept	15	27
Fisons and ICI want antidumping duties	Dec	15	5
imposed on fertilizer imports N FI's semiannual "Fertilizer Financial	Nov	3	23
Facts" - production, sales, prices,			
etc N Great Britian: ICI, Fisons, Shellstar	Oct	6	43
agree to share information N	Nov	10	27
fertilizer use limits	Sept	1	11
Japan cuts investment	July	21	29 28
Japanese-Chinese agreement N	Sept	1	13
Sales up 3% in year ended June 30 N FI's monthly index N	Aug	11	18 57
Spain: Union de Explosivos-Rio Tinto and Cros form jointly owned com-			
pany to consolidate fertilizer sales , R	Dec	15	33
Toyo Engineering to build plant at Tuticorn for the Indian government	Sept	15	23
Fertilizers see also individual fertilizers; Ammonia, Nitrogen, Phosphate etc.			
Acrylic fibers licensing agreement signed			
by Sumitomo and Cyanamid R Autos: Controversy over rapid-inflating,	Aug	4	19
balloon-type occupant-protection de-			
Air bags for automobiles face new	July	28	16
Canada's CIL sells interest in Millhaven,	Sept	15	17
pulls out of fibers	July	7	41
Canada's Polymer Corp., chairman Rowzee says Communist China could			
be a market for Western chemical technology, particularly for production			
of man-made fibers	July	28	29
Carbon fiber unit at Shiga, Japan, works completed	Sept	1	16
DOUSTS ITS STAKE III SYTTEMETIC HOETS	July	14	15
Commerce Dept, rules wigs and hair- pieces fall under the jurisdiction of the			
Federal Flammable Fabrics Act	Sept	22	23

Dow's Western Div. to design and test				Du Pont: coming on strong in '72;			
large hollow fiber modules for desalt- ing brackish waters N	Aug	18	88	McCoy seeks fiber sales, firmer prices boosting profits	Dece	22	29
Ou Pont wins Kirkpatrick Award for Permasep filter development	Oct	6	14	Du Pont goes to the European money market again	Sept	15	21
Ou Pont's acrylic fiber plant at Maydown, Ireland, expansion	July	14	16	Economic predictions from the U.S. Commerce Dept. and the N.Y. Stock			
Du Pont's McCoy sees fiber sales boosting profits Du Pont's "new type of optical fiber".	Dec	22	29	Exchange (chart) Economics Lab.'s sales and earnings	Sept Sept	8	14
Croton IHX	Sept	29	24	Elcor seeking refuge under Chapter 11 of the Bankruptcy Act N	July	28	9
ord's proposed safety car could broaden outlets for plastics, fibers reeport Kaolin develops process for	Aug	4	10	Elcor's "four-point program for growth". Emery Industries' Pres. D. R. Hinkley reported sales up, earnings down, out-	Sept	8	14
surface-modified pigments, "OX" process	Aug	11	35	look bright	July	7	13
reland: acrylic fibers expansion de- layed by Monsanto Textiles Ltd R	Aug	4	19	stock offering deferred because of generally unfavorable market condi-			
apan cuts investment	Dec	13	28	tions	Nov	10	20
performance markets	Oct	27	19	'71 Europe: Profits fall for Europe's chemical giants; ICI bucks trend (table)	July	7 27	5
is gloomy	Nov	24	43	European bankers set up organization to stabilize aluminum market,			
Polypropylene see Polypropylene Producers seek price increases under	Des	0	17	Alufinance and Trade N European plant sites report (maps,	Aug	11	1
Phase II guidelines (chart) icott Paper's paper-fiber plant site may	Dec	8	17	charts, table)	Aug	25	2
be in either Delaware or Maryland	Aug	25	16	more pessimistic about '72 N FRB making plans for combating infla- tion; expect to see a new credit	Dec	8	2
fibers	July Oct	28 20	15 29	crunch	Nov	3	1
Synthetic fibers doing well — Textile Economics Bureau report N	Oct	13	57	for fiscal '71	July	14	1
Turkey's first acrylic fiber plant on- stream	Oct	27	19	Firestone Tire's sales and earnings in	Aug	25	
Iters – Grefco's perlite filter aid and filler plant at Crawfordsville, Ind R Itration – Du Pont wins Kirkpatrick	July	14	16	71 Foreign exchange rates agreement:	July	7	1
Award for Permasep filter development .	Oct	6	14	chemical companies will find less in- centive to locate abroad; foreign direct investment in the U.S. also should be			
nancial				stimulated N French government's 5-year plan ('71 -	Dec	8	1
Airco cuts salaries, cites depressed business conditions	Sept	22	21	'75) calls for industry consolidation, reorganization, heavy investment to			
Air Products charts global course for chemicals (chart)	Sept	22	53	expand domestic and foreign markets in chemical products	Nov	24	4
and Harvey	Sept	1	8	to meet government's 5-year goal	Nov	24	4
"cautiously optimistic" performance forecasts for last-half '71	July	28	14	(table)	July	14	
Australia's fertilizer industry faces con- tinued profit drought	July	14	43	Great Britain: Courtaulds' chairman, Lord Kearton, says Britain will have			
Now three ways of calculating BOP . N To improve during last-half '71 N	July July	14 14	10	another devaluation within 12 months	July	21	,
Trade and the balance of payments may become lively topics in Con- gress in September N		11	5	Great Britain: John Bull bearish on chemicals	Nov Sept	24 15	2
Bayer merging its six wholly owned sub- sidiaries to give it a stronger marketing				Great Britain: U.K. rocked by ICI profit dip, gloomy outlook for industry			
and financial clout	Dec	8	18	Great Britain: Will Heath's pump-priming spark British recovery? — report	Dec	8	
foreign investments to develop its mineral resources N Borg-Warner's five-year plan includes a	Sept	8	19	(tables)	Oct	6	:
target for a 77% increase in sales of chemicals and plastics, Chairman				Grow Chemical's Banks: Credit will	Nov	10	
Ingersoll says	Nov	10	20	enable company "to implement our long-range growth plans"	Aug	4	
petrochemicals to 1/3 of total invest- ment		29	27	only in energy and closely related activities	Nov	10	
Bristol-Myers' sales and earnings in '71 . British Petroleum offers stock to help	July	7	14	Gulf Resources & Chemical's sales and earnings in '71	July	7	
finance group investment British producers are holding back on capital exercises	Oct July	13	24 39	Hercules' Brown: He's forecasting at least a 20% increase in industry profits	Oct	27	
capital spending	July	,	38	Hoechst reduces working hours at poly- ester fiber plants	Dec	1	
chemical producers for the past 10 years (charts)	Aug	11	27	Huels' capital spending will be cut 50% in the next two years	Dec	1	
Canadian profits rise	Nov	10	19	ICI back in the money market N Inflation: Cue for a new attack on in-	Aug	4	
panies cut first-half capital appropria- tions 10-15% (chart)	Sept	1	10	flation – Viewpoint	Aug	11	
Capital spending: Contractors predict '72 upturn (chart)	July	28	44	Chemical company treasurers eyeing the bond market	Sept	15	
Capital spending: plant sites '71 re- port, J.M. Winton (charts & tables)	Oct	13	36	Don't look for a continuing climb N Long-term corporate bond market given boost by declining short- and	July	14	
Capital spending rates climb: Com- merce-SEC report (table)	Dec Sept	15 15	22 23	long-term interest rates N Recent declines in long-term interest	Oct	27	
CPI treasurers seek balanced position in world currencies; how money managers protect companies during monetary				rates spurs borrowing by chemical process companies	Sept	22	
crises Ciba-Geigy borrowing \$24 million for	Nov	17	55	ings growth "lies in its two major and basic products - phosphate and			
expansion of its U.K. interests ! Conference Board's survey of the	V July	7	40	potash" Ireland: Favorable investment incentives and imminent Common Market entry	Oct	13	
country's 1,000 largest manufacturers in third-quarter '71	Dec	1	17	lend impetus to chemical industry buildup (map)	Sept	8	
Corporate financing: For this year they're	July	14	15	Italian government plan seeks to re- vitalize chemical industry	Dec	15	
banking on depreciation (chart & table)	Aug	4	7	Japan: Revaluation of the yen; what it means to U.S. chemical producers	Sept	8	
sought		3	13	Japan cuts investment Japan's CPI will decrease capital spend-	Dec	8	
	N July	7	33	ing in '72 N	Oct	20	
modest improvement Depreciation see also Taxiation Dividends in doubt	Oct	20		Lending rate: commercial bankers talk- ing about raising their prime lending			

Management's view of '72: sales, prices, spending will go up — McGraw-Hill's			
Economics Dept. survey (chart) MCA's meeting: the international mone-	Nov	10	17
tary and trade crises and the impact on chemical companies' foreign and			
domestic profits N MCA's meeting discusses big problems:	Nov	24	13
profits pollution power	Dec	1	16
Metals producers hope for '72 upturn, invest for long-term growth (chart)	Dec	8	15
Mobile, Atlantic Richfield will boost downstream profitability	Nov	24	19
Monetary crisis	Nov		
International monetary crisis N International Monetary Fund meetings	Aug	18	18
fail to produce any concrete results			
for solving the latest monetary crisis	Oct	6	9
Chemical money managers far from	Mari		13
International talks stalled N	Nov Dec	3	13
International trade and monetary pic- ture: here's what to expect N	Dec	22	9
Monsanto listed on the Belgian stock			
exchange	July	7	40
about \$12 million in Swiss francs to help finance the parent company's			
\$60-million Western European expan-			
sion program N Montedison's Cefis pinpoints his problems.	July	14	40 29
Montedison's financial accounts have	outy	-	2.0
been turned over to the district at- torney of Milan, following charges			
been turned over to the district at- torney of Milan, following charges that the company had a "secret set of books"	July	7	39
NAM's "Dialogue for Action" discusses	July		
the multi-national corporation NSF's latest R&D compilation, "Re-	Nov	17	22
search & Development in Industry,			
'71 outlook: McGraw-Hill Economics	Sept	1	40
Dept. preview of the U.S. business	Dec	1	17
Nixon and FRB Chairman Burns have			
economic policy disagreements N Nixon's game plan	Aug	4	5
Hold-the-line decisions announced N	July	7	18
Chemical executive reaction is mixed to wage-price controls N	Aug	4	5
to wage-price controls N Congressional hearings on creation of wage-price review board N	Aug	11	5
Let's not lose momentum - Viewpoint	Aug	25	5
U.S. companies look like winners Chemical producers studying the im-	Aug	25	10
plications of the price-control meas-			
ures in Nixon's new economic policy	Aug	25	37
Chemical producers are unimpressed	rag	20	37
with the news that price ceilings can be based on May 25, 1970 prices . N	Sept	1	33
Wage-price freeze program could hurt	Sept	8	13
How chemical unions view the wage-			
What chemical makers want after the	Sept	8	15
Industry decision makers await	Sept	15	15
government decision on freeze Nixon's Phase II .	Sept	22	19
First look	Oct	13	21
A chance for prices to catch up with	Oct	27	5
costs? (charts)	Oct	20	19
McLaren warns business that antitrust	Nov	3	16
pricing provisions have not been	Mari	17	
suspended	Nov	17	17 25
Needed: plain talk on price rules -		0.4	
Viewpoint	Nov	24	5
chemical price, wage moves	Nov Dec	24	18 17
Queuing for price hikes			
companies get? (table)	Dec	15	19
tougher despite Phase II	Dec	22	13
Occidental Petroleum's first-half sales and earnings	Sept	8	16
and earnings Oil profits up in '70 Outlook for long-range growth: about 6%/yr until '85 — Mr.Graw-Hill Fco-	July	28	18
nomics Dept. report (table)	Dec	22	14
plan more spending abroad - Com-	0-4	10	22
merce Dept. survey (table) Overseas investments: companies getting	Oct	13	22
a break from OFDI	Dec	15	17
urge return to multilateralism, drop-	Nimo	24	17
ping of surtax Overseas investments: McGraw-Hill	Nov	24	17
Economics Dept. report	Aug	25	13
industry's foreign business — Recessions	D		25
abroad, repercussions at home (chart) . Overseas investment: U.S. payment-trade	Dec	1	15
deficits may tighten overseas invest-	Aug	11	9
PPG Industries* '71 second-quarter sales			
to be at a record high	July Sept	14	15 16

Phillips Petroleum's sales and earnings,		14	14	Petro-Tex's purification system in the main butadiene unit at its Houston	Sept		24
Pollution control spending see under	July	14	15	Fires see also Explosions	Sept	22	59
	Sept	22	70	Fish			
R&D spending heads up — Battelle forecast Sales and earnings Third quarter will be a turning point in	Dec	15	36	Acadia Fisheries, only supplier for a FPC plant at Canso, Nova Scotia, goes bankrupt	Sept	15	17
chemical companies' financial for- tunes N	July	21	9	FPC: Nova Scotia initiates bankruptcy proceedings against Cardinal		2	
More mixed returns: second-quarter earnings	July	21	14	Protein N Flame Retardants	Nov	3	23
Second-quarter returns confirm upturn is here (table)	July	28	13	Commerce Dept, rules wigs and hair- pieces fall under the jurisdiction of the			
Chemical profits are picking up – sec- ond-quarter results (table) First-half '71: how 300 CPI companies	Aug	4	9	Federal Flammable Fabrics Act Flammability standards for children's sleepwear will require labeling	Sept	22	23
fared at mid-year (tables)	Aug	11	7 25	that warns users about deleterious effects of nonphosphate detergents			
First-half reports	Aug Sept	25 1	14	on flame retardancy N July 28-21	Aug	4	28
Third-quarter earnings: better than last year, but still not good (chart)	Sept	29	19	sure-impregnated into wood shingles to impart long-term fire retardance	Aug	4	22
Third-quarter, estimated earnings Third-quarter '71: chemical processors'	Oct	13	28	Monsanto process for making cellulosic materials fire retardant N	Aug	25	47
profit outlook bright (table) Third-quarter: chemicals are on the	Oct	20		Sprayed fireproofing coatings for steel in pursuit of market held by asbestos			
rebound (table) Third-quarter financial results: Chemical firms end third quarter on bright	Oct	27	18	fiber, new coating from TSI Inc., Thermo-Lag	Aug	11	19
note (table)	Nov	3	18	Fleming, Richard — Air Products group v-p for chemicals: After two days on the			
upturn (table)	Nov	10	20	job, he seemed like an old hand Flocculants — Japanese plant to double	Sept	22	90
long lead over profitability (table) Third-quarter figures: SEC-FTC survey .	Nov Dec	17 22	20 15	capacity	July	28	15
Sales and earnings for individual com- panies see under company name in	Dec	66	15	Floors Artificial turf draws criticism from pro- fessional athletes, Monsanto says de-			
Company Index				mands will not affect sales of its	Ont	13	2
SEC says companies registering securities for sale shouldn't use that as an excuse				Astro-Turf	Oct	14	3
to withhold information from the public	Aug	25	9	into durable flooring	July	14	3
Security analysts' meetings hear American Cyanamid, Cabot Corp. and	Dec	15	21	Electrochemical fluorination process to make fluorocarbons offered by			
Rohm and Haas spell out their hopes . Shell Oil and Jersey Standard expect	Dec	15	21	Phillips Petroleum N Pennwalt's plant at Thorofare, N.J.,	Sept	1	4
profit hikes in '72 after lopping off less successful ventures	Nov	17	23	brings total U.S. capacity for fluorin- ated hydrocarbons to nearly 1 billion			
Spain: U.S. chemical companies set the pace for all foreign investors R	Oct	20	30	lbs./year	July	14	1
Standard Oil (Ohio)'s sales and earnings in '71	July	7	14	Foams Propylene seaweed prevents shore			
Stock offerings of individual companies see under company name in Com -				erosion, may provide breeding areas for marine life	July	14	3
Stein, Herbert newly named chairman of the Council of Economic Advi-				Shell Pipe Line will evaluate on-site production, shredding and spreading of urethane foam to soak up oil spills . N	Sept	8	4
sers	Dec Aug	8 25	16	Stauffer sells its urethane foam opera- tions to United Foam	Aug	18	
Stocks: chemical stocks outlook N Sumitomo's profits drop; Hasegawa favors revaluation of yen to slow	July	14	9	Syntactic carbon foam	July	21 15	N. P. P. P.
Japan's economic growth	Sept	29	21	Food			
profits, capital spending	Sept Sept	29 8	32 16	Desserts: Gelling agents find a new mar- ket in frozen desserts in France	Aug	18	4
Swiss bond market remains attractive N Union Carbide's Group 1: chemicals and	Nov	10	27	FDA plans to restrict use of Red No. 2 coloring agent	Oct	20	2
plastics division says reduced operating costs, new product mix will boost its				paper for food packaging has resulted in high polychlorinated biphenyls in the			
earnings 7-10% through '80	Oct	20	57	foods, launches a nationwide survey . N Snack-food business a boom for starches	Oct	27 17	
sharp uptrend in earnings	Oct Sept	13	27 14	Food Additives	1404	17	,
UOP's second quarter operating loss Venture-capital activities: Chemical com-	July	14	15	FDA may probe use of nitrates and ni- trites in food additives	Oct	27	
panies are finding that investing venture capital in small new firms is a good way				Sweden's NIPH stops use of diethylpyro- carbonate as drink preservative N	Sept	1	
to diversify and increase profits West German investment is slowing	July	28	25	Food & Drug Administration			
West Germany: Up goes mark, down go	l Aug	11	31	Container rules set	Sept	15	
German profits – report (charts) Whittaker's nine months sales and	Sept	22	33	Drug labeling, regulations etc. see under			
earnings	Sept	8 22	16	Lead in paint faces bans N Nov 3-14,			
Yugoslavia makes pitch for Yankee dollars (map)	Nov	17	35	Nov 17-22 PCB under scrutiny Oct 13-21 N	Dec	15 27	
coatings bid for furniture market	Dec	8	31	Study of nitrates and nitrites added to meats and other food products	Oct	27	
Finishing — Paint remover sales take off: new aerosol packaging and a growing out				Shortage of manpower means approval delays for chemicals	Nov	17	
let in furniture refinishing boost market . Finland – Petrochemical plunge: oil re-	Oct	20	65	FDA regulations, standards etc. see also	Dec	15	
finer Neste spearheads push into olefins and derivatives (table)	. Aug	4	17	under specific products			
Fire Retardants see Flame Retardants Fireproofing — Sprayed fireproofing coat-				Formaldehyde British Industrial Plastics' plant at			
ings for steel in pursuit of market held by asbestos fiber; new coating from			*^	Oldbury, near Liverpool F Nores plants; Finns take petrochemical		18	
TSI Inc., Thermo-Lag	. Aug	11	19	plunge (table)	Aug	4	
Hercules' two warehouses destroyed by fire near South River, N.J. Oxirane's Bayport, Tex., plant fire and	R July	, ,	7 15	France Chemical industry production increased 5.4% in the first half of '71	N Sept	15	
explosion: cause of the blast not yet revealed	N July		7 33	Cie. Francaise des Petroles and ELF- Erap link investment and production	R Dec	15	
10100100	, July		33	efforts; four subsidiaries formed	n Dec	15	

	22	24	European plant sites report (map, chart, table)	Aug	25	33
	22	59	Franco-Soviet oil refinery in France and French aid in building cellulose plant			21
			Gelling agents find a new market in	Aug	18	31
			Government's 5-year plan ('71 – '75) calls for industry consolidation, re-	Aug	18	43
	15	17	organization, heavy investment to ex- pand domestic and foreign markets in chemical products	Nov	24	45
	3	23	How French CPI will build capacity to meet government's 5-year goal (table)	Nov		48
			Japanese-French joint venture urethane resins plant is slated for northern France	July	14	40
	22	23	Methylchlorosilanes plant at Rousillon	Dec	1	21
			Natural gas from Russia N Swedish and French gas leaders team	Aug Sept	18	31
	4	28	Freight Rates Plant sites '71 report — transportation	ООРТ	10	
	4	22	costs. J. M. Winton (charts &	Oct	13	39
	25	47	Rail freight-rate surcharge opposed by	Dec	22	15
	25	41		Aug	11	12
	11	19	rates	Sept	22	24
	22	90	Fuel Illinois chemical firms may soon be eye-			
	28	15	ing natural gas substitutes N Nuclear research reactor fuel provides several times the useful life span of	Sept	1	43
			previous fuels	July	7	27
	13	24	alkali production	Dec	15	39 31
	14	37	Fumigants - Carbon tetrachloride-based	Dec	22	41
	14	31	liquid grain fumigant prices N Fungicides	July	21	41
	1	43	Corn blight helped fungicide makers, but not as much as expected	Sept	8	37
		40	Sales helped by corn blight infesta- tions	Aug	11	18
	14	15	Furniture Paint remover sales take off: new aerosol			
			packaging and a growing outlet in furni- ture refinishing boost market	Oct	20	65
	14	37	for furniture market	Dec	8	31
	8	40	and it is this imperfection that results in heat loss, says Gulf scientists N	July	14	23
	18	25	G			
	21 15	24 27	Gas			
			Algeria's Sonatrach awards a construc- tion contract to Pritchard-Rhodes for gas liquefaction plant at Skikda R	July	7	45
	18	43	American Lurgi process, tradenamed Gasynthan, for the catalytic steam re-			
	20	23	forming of naphthas and lighter ma- terials to produce 950-1,000-Btu.	haba	7	27
	27	25	pipeline gas	July		
	17	53	French and Swedish gas leaders team	Sept	29	24
	17	53	Institut Francais du Petrole process to recover Claus unit tail gas licensed to	Sept	15	23
	27	17	five U.S. firms N Japan Gasoline negotiating deals with	Aug	18	88
t	1	43	U.S. firms for its methane-rich gas process to make SNG from naphtha . N	Dec	8	25
	15	16	NGL demand puts squeeze on chemical plants based on ethane and propane	Oct	6	10
	10	10	Pipeline-gas-from-natural-liquids plants N Oct 20-69 N U.S. military transport removes the last quantity (825 tons) of mustard and	Oct	27	37
			nerve gas from Okinawa R Gas see also Natural Gas and specific gas	Sept	22	24
	15	41	Gas Oil — Ethylene plants of the future: new accent on heavier feedstocks	Sept	15	31
	27	25 17	Gasification			
v	17	61	Bituminous Coal Research design plans for pilot plant in Homer City, Pa.;			
0	15	5	world's first unit for converting coal into gas is IGT plant due soon Commercial coal gasification plant may	Dec	1	17
			be taking shape in the heart of Texas natural gas country	Aug	18	87
У	18	15	El Paso plans coal gasification plant in New Mexico	Aug	25	47
g	4	17	coal gasification plant N	Sept	8	40
			Gas companies plan to produce methane from coal, naphtha	Sept	1	9
pt	15	21	process	l July	21	49
ec.	15	33	Lurgi plant to make gas equivalent to natural gas studied by new group N	Nov	3	5

Monand and and an and an			
Natural gas industry and Dept, of In- terior will launch joint research pro-			
gram to develop commercial coal gasification program	Aug	11	11
plants N Oct 20-69 N	Oct	27	37
Shortage of natural gas spurs coal gasi- fication development	Oct	27	33
Tecon Gasification plans project to gasify	Oct	20	69
Gasoline		2.0	00
Availability of aromatics at refineries will depend on octane ratings in lead-			
will depend on octane ratings in lead- free gasolines the '75 autos can use . N Lead additives: EPA to publish standards	Aug	25	47
expected to require elimination of lead additives in gasoline	Dec	22	16
Lead-free gas: new study says EPA's costs for lead-free gas are too low; slide			
in lead alkyl sales not as fast as feared	Oct	13	59
N.Y.C. new air quality code bans use of leaded fuels after Jan. 74	July	21	49
Oil's building boom: What gasoline re- fining changes mean for chemical	July	21	49
plants (chart)	Sept	1	6
make any difference in gasoline sold at		20	40
Gels - Gelling agents find a new market	July	28	10
Generators – Grace's Davison Chemical	Aug	18	43
Div. offers new, compact air-cooled ozone generators in modular arrangement . N	Oct	6	48
Germany BASF and Lurgi cancel contracts N	Dec	8	25
Bayer merging its six wholly owned sub-	Aug	4	19
sidiaries to give it a stronger marketing and financial clout	Dec	8	18
Benzene unit addition at Deutsche Marathon's Burghausen refinery R	July	28	15
Butadiene plant addition	Sept	1	16
in the next two years R Labor: Chemical unions in Northrhine	Dec	1	21
and Hesse have accepted a 7.8% wage hike retroactive to June 1 N	July	14	40
Methionine plant planned by Degussa . R Recession fears baunting chemical	Aug	4	19
makers; chemical giants are planning to reduce investment in '72 N	Nov	3	43
Science Ministry sets up program to develop protein-from-oil process N	Dec	1	43
Veba-Chemie plans aromatics facilities at refinery planned for Rheinburg-	000	,	40
Orsoy	July	7	45
West German bill would discourage bor- rowing abroad	Aug.	11	31
pand overseas as they react to mark re-			
valuation N West German investment is slowing	Oct	13	31
down	Aug	11	31
pollution control cost will be \$2.2 bil- lion in next five years N	Aug	4	20
Metalworkers strike settled but auto	Dec	8	25
sales are still sluggish N West Germany: Entertainment expenses	Dec	22	19
of chemical companies will no longer be tax-deductible if a government tax			
reform bill is passed by the legis-	Nov	10	27
West Germany: European plant sites re-	Aug	25	26
port (map, chart, table)	Sept	22	33
Glass			
Detroit's program to recycle glass con-	Aug	11	10
tainers may be stymied	Nov	10	19
"warms itself, muffles unwanted sound,			
insulates against cold and heat, screens out solar glare"	Sept	29	24
Glass Fibers			
Glass-fiber-reinforced light poles tested	Aug	4	34
Polyester-resin reinforced "paper"		28	18
houses approved by FHA	Aug	11	11
sign and Solvay technology R	Aug	4	19
Glycol BASF increases capacity	Aug	4	19
Dow's prices of propylene oxide, pro- pylene glycol and dipropylene glycol . N		18	73
Northern Petrochemical's plant at Joliet, Ill., shut by an explosion in	- wag		, ,
heat exchanger	Nov Nov	24 24	23 29
Worldwide glycol glut may not ease until	July	21	37
'73 (chart) Goggin, William C. — Dow Corning's	July	21	3/
president and chairman of the board: Early riser keeps silicone maker in No. 1	_	-	00
position	Oct	20	86

Gold Production down N	Dec	8	29
Production down N West Coast Commodity Exchange begins trading in gold coin N Golf Equipment — Plastics: new golf equip-	July	21	41
ment gets big boost from pros in U.S.	July	21	45
Gottschalk, Robert – Candidate for U.S. Patent Commissioner N	Sept	15	13
Graphite - Golf club shaft of graphite yarn	July	21	46
Great Britain ABS and carbonoxylated styrene-buta-			
diene plant near Southhampton R British Steel, state-owned company, ordered to shed activities the Conserva- tive government considers periph-	July	28	15
eral N Chemical industry faces problems of	July	7	39
harmonization of British laws with those of the Common Market N Chemical Workers' Union merger with Transport and General Workers Union could result in stronger chemical	Nov	24	43
union	July	21	35
entry	Oct	27	45
Common Market: timetable for British entry N	Nov	3	43
Gourtaulds' chairman, Lord Kearton, says Britain will have another devalua-	6.65	21	35
tion within 12 months N Crown jewels tarnished European plant sites report (map, chart,	July Oct	21	62
table) Exports and imports in first-half '71 . N	Aug	25 18	24 31
Fisons and ICI want antidumping duties	Aug	3	23
imposed on fertilizer imports N ICI dropping some of its domestic operations as part of cost-cutting pro-	1404	3	23
gram	Dec	22	21
fertilizer information N ICI plans to acquire four texturizing	Nov	10	27
companies	Sept	22 24	51 51
Labor continues to come up with ever	Oct	27	43
bigger demands	Oct	20	29
Island, Essex	Dec	8	28
Wilson's Whitehaven works	Sept	1	16
ouster of Soviet spies has been re- ported N	Oct	6	19
Producers are holding back on capital spending	July	7	39
Rio Tinto Zinc's potash project in Yorkshire shelved	Sept	22	59
	Dec	22	21
never get out of the lab (table) Survey discloses a revival of business	Oct	6	45 31
optimism in th+ i.'.K N U.K. jogs economy U.K. outlook gloom,	Oct July Dec	28	17
U.K. outlook gloom; U.Kspending slump U.S. and U.K. take the first step toward exchange of environmental informa-	Sept	15	24
tion	July	28	40
	Oct Aug	6 25	37 20
Greece – Polyester fiber plant N Gum – Naval stores prices N	July	7	34
н			
Hairpieces - Commerce Dept. rules wigs			
and hairpieces fall under the jurisdiction of the Federal Flammable Fabrics		00	00
Act Hall, John — Ashland Chemical's president: Blends keen business sense, 'down	Sept	22	23
home' air	Sept	8	48
Health Carbon particles and sulfur dioxide may			
lower man' ability to fight infection says Penn. State's Zarkower NH-E-W's list of toxic substances for use	Dec	8	43
pational Safety & Health Act	Aug	18	27
Job-safety legislation see Law "New Orleans" asthma study finds natural, rather than industrial or man- made pollutants are the probable			
"Unity on asbestosis" — Clearing the			43
air – letter	Sept	29	15
boils – letter	July	28 27	5 17
Herbicides			
Cyanamid and Amchem agree to stop selling the herbicide amitrole f Dow's charges of foot-dragging in the	R July	7	15
handling of cancellation proceedings for certain registrations expected to be	V 000	20	27
answered formally by EPA	N Oct	20	21

Patent Office reverses a '67 decision that awarded priority to Monsanto on use			
of 3,4-dichloropropionanilide as a selective posternergence herbicide and awarded priority to Rohm & Haas R	July	28	18
2,4,5-T: Dr. Epstein criticizes report	July	21	17
2,4,5-T: EPA's Ruckelshaus will hold off decision on whether to uphold the can-	Aug	11	14
Hexachlorophene			
FDA's warnings against use crimp sales . Nader wants FDA to tighten control on soaps and deodorants containing HCP,	Dec	15	22
charging that chemical causes brain damage in animals	Dec	8	19
cal Industry Medal	Oct	13	23
Hormones DES: hearings to find out why USDA failed to report findings of residues in some cattle and sheep tested N Oct			
20-27N	Nov	24	14
Gets another going over at new hear- ings	Dec	22	17
ings Searle unveils new class of hormones, 11-beta-methyl—19-norsteroids N Zoecon synthesizes two new juvenile	Aug	4	33
hormone analogs N	Dec	8	43
"instruments" for measuring pollution	Oct	20 24	61
Hydrocarbons			
Calgon develops a molecular-screening activated carbon for separating hydro- carbons and other compounds N	Aug	18	87
strains that might accelerate biodegrada-			
tion of hydrocarbon wastes N Pennwalt's fluorocarbons plant at Thorofare, N.J., brings total U.S. ca- pacity for fluorinated hydrocarbons	Aug	25	47
to nearly 1 billion lbs./year	July	14	15
U.S. Tariff Comm, report N Puerto Rico-based Corco will buy feed- stocks from Algeria's Soc. Nationale	Oct	20	55
Sonatrach N Transco planning plant to convert liquid	Dec	22	9
hydrocarbons into synthetic natural gas (SNG)	Oct	27	17
Hydrofluoric Acid Du Pont plans Mexican joint venture			
near Matamoros	Aug	4	12
Hydrogen			-
Dow reveals pricing system for corro- sion inhibitor system for ammonia and hydrogen plants using monoethangla-			
Petrofina Canada's plant at Pointe Aux	Oct	13	71
Trembles	Sept	15	24
gen plant at Ashtabula, O R Hydrogen Chloride – Taiwan Vinyl			16
Chloride Corp. unit starts up R	July	21	33
Hydrogen Peroxide Finnish Peroxides plant; Finns take petrochemical plunge (table) Philippine plant R	Aug Dec	4	17 21
-	000		
IIT Research Institute Plastic recycling study Surface-active agents developed show promise of eliminating the need for	July	28	26
phosphate in home laundry deter-	Dec	1	43
Imports Aluminum in a slmup (charts)	Nov	17	45
ASP see Tariffs American Standard's Eberle: Nixon choice to head U.S. trade negotiating			
Balance of trade	Oct	6	13
Chemicals key in trade balance (charts) Dock strikes have darkened U.S. bal-	Aug	4	26
ance-of-trade picture	Dec	8	20
role in trade — letter Imports up, exports dip	Aug	4	4
Nixon given emergency authority to impose broad new curbs on imports,	Sept	8	16
including a hike in the surcharge to 15%	Nov	17	24
Plus for chemicals — Commerce Dept.	Nov	10	18
Trade and the balance of payments may become lively topics in Congress in September		11	5

U.S. chemical trade balance is shrinking		2	10	LNG imports see also Natural Gas				Indor
swiftly	July	7	10	Louisiana's Breaux says the surcharge and currency revaluations may especially				Indus
economic program will not lead to any long-term improvement in the de- teriorating U.S. trade position in benze-				encourage new projects in the U.S MCA's midyear meeting: the international monetary and trade crises and the im-	Oct	6	14	of i
noid chemicals	Sept	15	18	pact on chemical companies' foreign	New	24	12	Acc
Benzenoid chemical imports (chart) Benzenoid intermediates from Japan in-	Sept	1	11	and domestic profits N McCracken spells out figures behind	Nov	24	13	le
	Sept	1	5	Administration's policy shift NFTC survey reports U.S. overseas production has not cut U.S. exports	Sept	29	17	in Pre Are
port surchargeN	Sept	29	27	Nixon's "game plan" see Financial Oil: Interagency Oil Policy Committee	, , ,			Bur
Chemical imports during the first five months of '71	July	28	21	urged to cut U.S. dependency on				af
Commerce Sec. Stans says U.S. industry needs help to make it more competi-	Aug	4	6	foreign oil sources N Oil quotas Feedstock import plan expected to	Aug	4	16	Che bi Cor
Dumping: Glass dumping hurts says				boost U.S. petrochemical output		05	10	Du
Tariff Comm. Dumping: importers are upset by U.S.	Nov	10	19	(chart) Limitations on residual fuel oil imports	Aug	25	12	C
enforcement of dumping regulations Dumping: Japanese pipe being sold in violation of antidumping law charge	Aug	11	11	draw fire in Congress New oil imports program is far from ironed out; infighting over details of	Sept	15	19	at w Eur
manufacturers	Nov	10	19	planned liberalization of controls of imports of petrochemical feed-				Ire
Dumping: Polymer Corp. asks for finding that imports of SBR by Goodyear of				stocksN	Sept	8	9	ai le
Canada be considered dumping of the material by its Japanese producer N	Sept	3	33	OEP program: petrochemical companies apparently will have virtually unlim-				b
Dumping: "25% rule" changes by Treas- ury Dept. may more easily prove "un-				ited access to foreign feedstocks – probably by '74 N	Aug	18	17	Ital
fair" dumping N	Aug	4	15	Oil companies pitch for quota changes				Me
Dumping: U,K,'s Fisons and ICI want antidumping duties imposed on fertil-				With more naphtha	Oct	20	20	Me
Dumping U.S. Treasury Dept. crack-	Nov	3	23	refineries, petrochemical plants OPC plan may allow petrochemical in-	July	21	14	Me
down	Nov	3	19	dustry to get more access to foreign	Dec	0	14	Me
Belgian producers plan to visit USSR				feedstocks N Petrochemical companies expected to	Dec	8	14	Me
in an effort to expand trade and technical cooperation N	Nov	24	43	approve Interior's new proposals to increase access to relatively inexpen-				A
Boost in Soviet trade with the West is expected to result from the visits by				sive foreign feedstocks	Dec	15	21	C
top Soviet leaders to Algeria, Canada	Nov	3	43	liberalization of quotas for the petro-	Δ	11	F	(
and France N Canada's Polymer Corp. chairman	Nov	3	40	chemical industry N Puerto Rico Olefins requests special	Aug	11	5	
Rowzee says Communist China could be a market for Western chemical				quota for its Puerto Rican Plant N Sen. Harris to introduce a resolution	July	28	9	
technology, particularly for production of man-made fibers N	July	28	29	that calls for scrapping the oil im- port quota system and switching to				
China trade door open	Aug	18	29	tariff controls	Nov	24	17	E
China wants to boost trade with Canada, but would eschew dealing				Presidential Commission on International Trade and Investment policy report				
with Canadian subsidiaries of U.S. companies	July	14	40	will add to monetary controversy N Study recommends repeal of ASP	Aug	18	18	,
Nixon's authorization of Export-Import	July	14	40	valuation system	Sept	22 17	24	(
Bank credits for sale of U.S. goods to				Spanish imports decrease	Dec	22	21	,
Rumania viewed as preliminary move to granting the same to the				Tariff Commission taking a hard line on adjustment assistance N	Sept	22	17	
Russians N Nixon's planned China visit will affect	Dec	15	35	adjustment assistance N TV imports: unions seek "escape clause" relief under provisions of the				,
U.S.—Soviet relations	July	28 20	18 29	Trade Expansion Act of '62 N	Oct	13	17	1
Russians set to trade?	Nov	17	38	10% surcharge: Aceto Chemical reports 10–20% of the products it handles are				
Russians sign technical cooperation agreements with Hoechst and				now unpfitable due to 10% sur- charge N	Oct	27	13	(
Henkel	Nov	24	43	10% surcharge: shippers carry burden 10% surcharge causing foreign competi-	Sept	8	12	
built ships and grain farm equip- ment for Russian natural gas and				tors to step up production at their U.S. facilities; look for some of them				1
	Dec	8	14	to begin setting up licensing agreements	Oct	27	13	
engineering and equipment firms off	Almi	2	42	with U.S. agents	Oct			
to Russia and Rumania N European Common Market calls for	Nov	3	43	allN Textiles	Sept	29	17	
early removal of the U.S. 10% import surtax	Sept	1	13	Far East trade issue remains unre- solved N	July	7	10	
Great Britain: John Bull bearish on chemicals	Nov	24	51	Imports soar (chart) New quotas on imports of man-made	Sept	22	22	
Great Britain's exports and imports in first-half '71 N	Aug	18	31	and woolen textiles from the four				;
Hong Kong's new plan for limiting ex-	Muy	,0	01	big Asian suppliers may be added to the Nixon game plan N	Sept	29	17	
ports of man-made and woolen textiles to the U.S. is "totally unacceptable"				Textiles in the red: Commerce Dept. 10-month import-export figures	Dec	22	14	
to Washington N Imports are no fun – letter	Sept	22	17 5	U.S. Tariff Commission decisions on	200	22		:
Japan is easing import restrictions N Japan signs new five-year trade pact	July	28	29	requests for adjustment assistance show no pattern as yet N	Nov	17	17	
with USSR N	Oct	27	43	Trade bill see Tariffs Trade negotiating authority for the				
Japan to try to boost trade with main- land China	Oct	27	43	President may be broadened U.S. chemical trade in August – Com-	Dec	15	23	
Japan told: 10% imports surtax aims to erase U.S. trade deficit	Sept	29	22	merce Dept. figures	Oct	6	12	
Japan's edge in chemical trade: Fair or				Incineration				
foul? (charts)	Aug	18	23	Centrifuges designed for dewatering chemical plant wastes can cut the				
Communist China N Japanese textiles	Nov	17	31	costs of secondary treatment and in-	0	45	27	Pa
Curbs on U.S. imports of man-made- fiber products stir protest in Japan,				USBM pilot study of an incinerator resi-	Dec	15	37	A
but are favored by most U.S. fiber	Oct	22	16	due recycling process finds there's money to be made in "mining" gar-				Infr
and fabric makers (chart)	Oct	27 10	15 87	bage dumps	July	28	39	of
Japan estimates it will lose about \$170 million worth of fiber exports as re-				India				Inia
sult of the proposed textile-fiber export control plan	Oct	20	31	Chlor-alkali plant at Karwar R Fertilizer push	Sept	15 21	24 29	D
Nixon Administration's threat to im-	o.t	20	51	Gwalior Rayon Silk building caustic			48	
nose quotes unitation's threat to im-				soda plant at Nagda	Sept	22	48	St
pose quotas unilaterally may result in export curbs N	Oct	13	17	Maleic anhydride plant	Oct	20	30	
pose quotas unilaterally may result	Oct Oct	13	17 14	Maleic anhydride plant	Oct	20 8	30 28	T

ndonesia — Cryogenic nitrogen plant at Puldja	Sept	15	24
Puldja			
ment climb	July	21	55
ndustry Developments			
Acquisitions and mergers: for news- letter and roundup items see under			
individual company names in Com- pany Index			
Area developments see Area Develop-			
ment Burmah Oil still looking for partner			
after Conoco talks fail	July	7	13
business (table)	July	7	12
report has antitrust focus	Sept	15	18
report has antitrust focus Du Pont realigns product lines: Industrial Chemicals Dept., Polymer Intermedi-			
Chemicals Dept., Polymer Intermediates Dept. and Photo Products Dept. will be set up	New	24	20
European plant sites report (maps,	Nov		
charts, table)	Aug	25	23
and imminent Common Market entry lend impetus to chemical industry			
buildup (map)	Sept	8	22
Italian government plan seeks to re- vitalize chemical industry	Dec	15	29
Mergers: International Mergers Service A.G. formed N	Nov	24	13
Mergers: Merger rate slowing	Oct	13	24
relatively quiet this year	July	7	9
Mergers and acquisitions: for newsletter and roundup items see under individual			
company names in Company Index			
Mergers & acquisitions Austrian merger of the petrochemical			
divisions of OMV and OSW set Chevron Chemical purchases Vectra	Sept	29	32
Corp	July	14	15
pharmaceutical manufacturers: Smith,			
Miller & Patch and Establecimentos	Sept	1	10
Diamond Crystal Salt's merger into			
Cleveland-Cliffs Iron called off N El Paso merger with Pacific Northwest	Sept	8	25
Pipe Line: bribery chargers stymie merger okay	Dec	8	17
FMC and Foster Grant contemplate			
merger R Oct 6-15	Oct	13	28
ber-fabriek Vredestein stock to	0	07	10
Goodrich Grace offers up to \$17 million for	Oct	27	19
Mr. Gasket, auto-parts maker Kawecki Berylco and Molybdenum	July	14	14
Corp. of America map merger Kendall considering merger proposals from Textron and Colgate-Palmolive	Oct	6	12
from Textron and Colgate-Palmolive .	Nov	3	17
but others are likely	Dec	1	18
L'Air Liquide acquires a 50% inter- est in AGA Gas; Deutsche L'Air			
Liquide Edelgas will, in turn, become a subsidiary of AGA Gas			
a subsidiary of AGA Gas	Sept	15	23
ger: Justice may ease up on antitrust	liche	21	9
Occidental Petroleum asks FTC ap-	July	21	5
proval to spin off its diammonium phosphate business to Beker Chemical;			
Beker would buy stock interest in	Nov	24	17
Hooker Farm Chemicals of Taft, Inc. Riegal shuns Southwest Forest, merges		-	
with Federal Paper Board	Aug	25	14
8 other companies and individuals for allegedly conspiring to take con-			
trol of it "by fraudulent acts and practices"		00	00
Slick officers fill Filtrol posts. Is	Sept	29	23
merger in the wind?	Dec	8	19
control of Midwest Oil and merge it			10
with Amoco	Aug	4	12
on merger	Aug	25	9
for using "misleading scheme" to	Oct	0	16
take control of Midwest R Standard plans to offer stock ex-	Oct	6	15
Stauffer's urethane foam operations sold to United Foam	Aug	18	25
Paper firms plan mergers, expansions:			
high costs crimp profits (table) A year full of surprises — Viewpoint	July Dec	14	14
Infrared - Scanning technique for detect-			
ing impending equipment failures by use of temperature profiles	Nov	17	66
Inland Waterways			
Dow Chemical wants the St. Lawrence Seaway season extended beyond the			
present mid-December closing N	Nov	24	14
St. Lawrence Seaway overcrowding sparks a dispute over winter closing			
date	Dec	15	20
sues to block construction on environ- mental grounds N	July	21	9
months growing	July	21	5

Insecticides				
DDT see DDT Dow's Zectran shown to be "20 to 25				
times as effective as DDT"	Aug	18	27	
cide, Fungicide and Rodenticide Act as soon as they are received N	Aug	4	15	
Florida battles giant African snail infesta- tion with metaldehyde	Nov	24	41	
juvenile hormone analogs synthe- sized N	Dec	8	43	
Malaria-carrying mosquitoes build up resistance to insecticides	Aug	4	36	
Pesticides Control bill: pending legislation would impose civil penalties	July	21	14	
Bill requires imported food commodi- ties to meet U.S. standards N	Sept	22	31	
Bill hailed . Bill passes the House	Sept	29 17	22 22	
chlor	Oct	27	17	
know-how and export sales Pesticide R&D – letter Pesticides blased in Nader's report Producers would bear the burden of	July July July	14 28 28	43 5 15	
proving their products safe under a bill proposed by Rep. Dow N Synthetic organic pesticide output and	Oct	20	27	
sales	Sept	29	37	
Univ. of Calif. scientists, starting in- vestigation of water in the San Joaquin Valley, will study the effect				
of pesticides N Texas' insecticide-spraying program to	Aug	18	88	
kill off culex mosquito N Toxophene waste control key to Hercules' naval stores cleanup	July	28	39	
Coal Research design plans for pilot plant in Horner City, Pa.: world's first unit	Aug	23	15	
for converting coal into gas is IGT pilot plant due soon	Dec	1	17	
Instruments Electro-Molecular-Propulsion, high voltage chemical process from Haber				
Instruments	Aug July	7	34 36	
Quick-Scan 1300, debut N Toy makers, taking advantage of the	Nov	17	65	
growing interest in ecology, offer in- expensive monitoring devices Intermediates — Cyclic intermediates: The	Dec	22	34	
man in the middle is doing fine — re- port. Donald P. Burke (charts & tables)	July	28	32	
International Aerosol Congress (Eighth): Aerosol business grows faster in Europe than in North America	Oct	20	66	
Intravenous Solutions — Abbott Labs' North Chicago plant back in produc- tion	Aug	4	12	
Inventories Chemicals and allied products decline —				
Commerce Dept. report (chart) Sulfur inventories N Aug 25-37, N	Sept	15	17	
Sept 22-59 N Iowa State University – Researchers find	Oct	27	29	
green plants might make sophisticated pollution detectors	Aug	25	47	
Foliage and soil are new "instru- ments" for measuring pollution	Oct	20	61	
Iren Aliaf will double output of nylon yarn				
plant	Aug	4	19	
of Iran	Aug	11	10	
North African oil crisis may be brew-		27	19	
Petrochemical project planned by Mitsui N		10	20	
freland	Aug	•	20	
Du Pont acrylic fiber plant at Maydown expansion	July	14	16	
minent Common Market entry lend impetus to chemical industry buildup (man)	Sept	8	22	
Mitsubishi interested in a refinery-petro- chemical complex in Ireland N		10	27	
Mitsui considering electrolytic manganese	Nov	10	27	
	Aug	4	19	
sion of acrylic fibers plant R Northern Ireland chemical and fiber companies avoiding northern strife	Sept	8	24	
Iron Cleveland-Cliffs will boost Tilden Creek,				
Mich, iron ore pellet output R Petrofina of Canada will temporarily close metal powder operation at		25	16	
Pointe-aux-Trembles, Quebec N	Oct	13	57	

Isocyanates - Spanish plant R	Oct Oct	20 20	22 30
Isomerization — Engelhard has worldwide rights to BP process N — letter	Aug Dec	11 15	40 5
Isoprene – Vulcan-Cincinnati will offer Marathon's isoprene process N Isopropanol – Nova Scotia initiates bank-	Aug	11	40
ruptcy proceedings against Cardinal Protein	Nov	3	23
Ammonia unit starts trial run	Nov	3	17
Ammonia unit starts trial run	Oct July Nov	27 28 24	19 40 21
issue licenses for their patents regis- tered in Israel	Nov	3	48
know-how and export sales PVC plant addition R Sulfuric acid plant R Urea plant starts trial run R	July Nov Oct Nov	14 24 20 3	43 21 30 17
Italy ANIC's methyl methacrylate butadiene-			
styrene plant at Ravenna will double capacity next year; a third plant is	Sept	22	48
Chemical plan: government charts big investment program to bolster chemi-		15	29
cal industry European plant sites report (map, chart,	Dec		34
Montedison's acrylonitrile plant R Montedison's Cefis pinpoints his	Aug	25 28	15
problems	July Nov	21 10	29 87
Petrochemical complex at Calabria R Pirelli trying to trim its labor force N	July	7	45 19
Protein-from-hydrocarbon: Italproteine studying feasibility of building plant	oct	0	10
in Sardinia N SIR's petrochemical complex in	Sept	8	19
Lamezia, Calabria	Sept	1	13
ating Montedison funds R	Dec	15	32
Japan ABS markets (chart)	Aug	25	39
Carbon fiber unit at Toray's Shiga works	Sept	1	16
completed . R Chemical export prices will go up N Chemical industry is now outtrading its U.S. counterpart – and U.S. producers are crying "foul" (charts)	Sept	1	5
are crying "foul" (charts)	Aug	18	23
curb capital investments	Dec	8	28
'72 N Chemical reprocessing of nuclear fuel;	Oct	20	31
additional plant to supplement govern- ment unit at Tokai planned N Chinese-Japanese fertilizer agreement . N	Dec Sept	15 1	35 13
Niihama	July	28	15
Ebara Mfg.'s sulfuric acid plant on Hokkaido island	July	14	16
next year	Oct	27 1	19 16
locally developed know-how in sev-	Dec	1	21
eral years First Japanese firm to export fabricated nuclear fuel; agreement with the Pakistani AEC N	Aug	18	87
rive year trade pact with 03311		27	43
produce ICI's bramoxone weed			-
killer	July	29 28	27 29
Maleic anhydride plant at Kashima H Mitsui Toatsu plans to seek union		28	15
agreement to make personnel cuts N Monsanto hopes to crack the Japanese		27	43
nylon market		14	40
Revaluation of the yen: what it means		25	20
to U.S. chemical producers Stockpiling of vital resources planned Sumitomo's profits drop; Hasegawa	Sept July	8 21	11 35
favors revaluation of yen to slow Japan's economic growth	Sept	29	21
Synthetic alcohol plant	Oct	20	30 19
Textile quotas see Imports — Japanese textiles Textiles: How much will textile pact	Aug	4	13
hurt? Textiles: Japan estimates it will lose	Nov	10	87
about \$170 million worth of fiber ex- ports as result of the proposed textile-			
fiber export control plan N Thailand petrochemical project de-		20	
layed	Sept	29	27
(N Newsletter, R Round	lup.)		

Trade overtures to mainland China					
N Oct 27-43	N	Nov	17 25	31	
N Oct 27-43 "Wood" from plastic? Japan Chemical Fibers Assn. — Teijin president Shinzo Ohya: At 77, he's	's	rug	20	44	
president Shinzo Ohya: At 77, he's too old to lead a protest march	not	Oct	27	56	
one to rose a protect march		part.	-	-	
Japan Textile Federation			45	0.7	
How much will textile pact hurt? Teijin's president Shinzo Ohya: At	77	Nov	10	87	
he's not too old to lead a protest					
march	****	Oct	27	56	
K					
Kerosine – China starting a kerosine price war in Hong Kong?	N	Dec	8	29	
Korea - Japan's Kururay to sell viny	rion				
plant to North Korea	N	Sept	22	51	
L					
Labeling					
Flammability standards for children sleepwear will require labeling that	n's				
warns users about deleterious effe	ect of				
nonphosphate detergents on flame retardancy	e N	July	28	21	
Sweden's consumer ombudsman rul	les that	July	20	21	
contents given in ounces, rather t grams, in an odd-shaped bottle m	han				
be misleading	· · · · ·	Sept	15	45	
Labeling, detergents see Detergents					
Labeling, drugs see Drugs Labeling, law see Law					
AFL-CIO Conference on Jobs: All	hort				
and Meany blame White House er	00-				
nomic policies for unemployment	t	July	21	13	
Airco cuts salaries, cites depressed					
Atlas Chemical lays off workers at	ine	Sept	22	21	
Tamaqua, Pa., plant Oct 20-22	A	Dec	8	19	
Tamaqua, Pa., plant Oct 20-22 Baton Rouge Trade Council of the CIO drops the "unfair labor prac charges it filed last month agains"	AFL-				
charges it filed last month against	t				
Stauffer and Borden		July	14	17	
construction slowdown band to-					
gether to win contract maintenar jobs away from AFL-CIO	nce	Cant	1	42	
British labor continues to come up		Sept	,	42	
with ever bigger demands Chemical hiring: no pickup in '72	N	Oct	27	43	
(chart)		Nov	3	20	
CPI unions sign four pay pacts .		Sept	22	24	
Coal strike Strike likely		Sept	15	16	
Coal strike, maybe	N	Sept	29	17	
Strike joits chemicals	N	Oct	13	20 13	
Agreement will lead to higher			0.0		
Contracts signed by five CPI comp	anies:	Nov	24	16	
J. Case Co., Chemetron, GAP C	Jorp.,				
Samuel Bingham Co., Sheller-Glo Corp.	De	Aug	11	12	
Copper strike		hatea	7	10	
Workers walk	despite	July	7	16	
strike against producers		July	14	17	
Copper-labor talks snagged as fed mediator steps in	octan	July	21	15	
racts conning		July	28	16	
Wage-price freeze clouds settleme remaining copper strikes		Sept	1	8	
Anaconda: Montana copper worl	kers		0		
	R	Oct	6	15	
USW Aug 25-16		Sept	1.	8	
plan	N	July	28	9	
European plant sites report (maps,			OF.	20	
charts, table)	on to	Aug	25	23	
begin constructing a plant near					
Nashville, Tenn., to produce stee cord radial truck tires		Sept	15	18	
GAF suspends manufacture of liqu	pid				
chlorine and caustic soda at its Linden, N.J., plant because of m	er-				
cury problems		Oct	6	13	
Germany: chemical unions in Nort and Hesse have accepted a 7.8%	thrhine wage				
hike retroactive to June 1	N	June	14	40	
Great Britain: stronger chemical w	KOFIC-				
ers' union could result from plar merger of Chemical Workers' Un	ion				
and Transport and General Work	ers	July	21	35	
Great Lakes Chemical "lockout" r	harns				
at El Dorado, Ark., plant rebutt Great Lakes Chemical: OCAW no	ed . N	Sept	1	5	
longer represents workers at					
El Dorado, Ark; plant Italy's Pirelli trying to trim its lab	or	Oct	20	22	
		Oct	6	19	
Japan: Mitsui Toatsu plans to seel union agreement to make persor	k				
cuts	N	Oct	27	43	

Job safety legislation BASF Wyandotte and OCAW dispute over who has access to the com-				U.S. Industrial Chemical's Tuscola, III., plant lays off 100 salaried em- ployees	Sept	15	18
pany's monitoring records under	0	6	10	"Unity on asbestosis" - Clearing the			
the new job safety law	Oct	6	12	air — letter Wage-price freeze: How chemical unions view the wage-price freeze	Sept	29	15
MCA workshop shows industry will have an abundance of new monitor- ing and record keeping require-				Wage-price freeze see also Financial - Nixon's Phase II			
ments to meet standards	Sept	29	49	West German metalworkers strike N Settled	Dec	8 22	25 19
unhappy" over Labor Dept.'s ad- ministering of Occupational Safety				West Germany: Up goes mark, down go German profits - report (charts)	Sept	22	33
and Health Act	Oct	13	17	Lacquers — Superfinishes: thermosetting coatings bid for furniture market Laibe, John — Esso Chemical Eastern's new president: Connecticut Yankee tackles	Dec	8	31
Davidson Lederle Labs.'s Pearl River, N.Y., com-	Nov	17	25	the Far Eastern market	July	21	58
plex reaches agreement on a new contract Libbey-Owens-Ford and the UGCW contract negotiations "bargaining was	Nov	3	21	pollution Latin America see individual countries Laubach, Gerald — Pfizer: Pratt, Jr.	July	14	20
complicated by the present wage-price	Nov	3	21	moves up to president and Gerald Laubach to executive v-p	Sept	29 13	24 88
Three-year contract signed R MCA panel on occupational safety	Dec	15	22 16		OCI	13	00
Michelin Rubber unions to global Nader vs. Du Pont – CW special 1.– The Raiders throw the book	July	14	17	American Cyanamid's controversy with Eli Lilly and Elizabeth Arden: case to			
at Du Pont	Dec Dec	1	31 35	Antitrust see Antitrust	Sept	29	23
3.— The Raiders: Who they are, how they work	Dec	1	36	The Asset Depreciation Range (ADR) system: suit filed against the Treas-			
Du Pont answers the charges of Nader's Raiders Nixon's "game plan" see Financial	Dec	8	36	ury Dept.'s new regulations N Baton Rouge Trade Council of the AFL- CIO drops the "unfair labor practice"	July	14	9
No lack of marital status - letter	July	14	5	charges it filed last month against Stauffer and Borden	July	14	17
OCAW bids for ICWU OCAW contemplating mergers with unions that have a common interest	Sept	22	26	California law requires all state and public agencies to buy recycled paper if it costs no more than regular paper	,		
or jurisdiction	Aug	18	17	and is as good	Dec	8	19
Oil in job safety dispute	Dec	8	19	called for to spearhead the attack on cancer	Sept	15	37
What chemical makers want after the freeze Phase II: What chemical men can ex-	Sept	15	15	Carter-Wallace case to get the federal government to pay damages for in-			
pect (table)	Nov	17	25	fringement of Carter's patent on meprobamate, company wins "opening			
Phase II won't stop labor in '72 – union demands will be tougher	Dec	22	13	skirmish"	Nov	3	14
Phase II see also Financial — Nixon's Phase II Plant sites '71 report — key labor cost figures for all 50 states, J.M. Winton				pieces fall under the jurisdiction of the Federal Flammable Fabrics Act Congressional workload shapes up;	Sept	22	23
(table) RR strike Chemical shippers ponder how to deal	Oct	13	41	legislators may propose a combination of tax credits for business investments and a cut in income taxes	Aug	18	28
with possible rail strikes Break in rail strike?	July	14 28	17 17	Cyclamates: bill would reimburse cycla- mate manufacturers for losses incurred under cyclamate ban	Oct	6	13
Gulf Coast chemical plants hard hit by strike	Aug	4	10	Deep-well disposal: Justice Dept. asks injunction against Armco's drilling of	OCI		10
Rail strike, maybe	Aug Sept	29	12 17	deep wells to dispose of waste ma- terials N	Aug	11	40
adopt a four day workweek R Rubber Workers turn down companies	Aug	4	12	Detergent phosphates see Detergents District 50 fights for merger with USW Aug 25-16	Sept	1	8
bid to restore eight-hour day Steel strike	July	7	16	1899 Refuse Act see Water Pollution	оорх		
Steel strike won't hurt unless Steel wage pact could help union or-	July	14	12	Florida voters approve corporate income tax	Nov	10	18
ganizing of chemical workers	July	14 28	13 14	Firestone subsidiary on patent on tire treads made from oil-extended rubber			
Cue for a new attack on inflation – Viewpoint Steel strike's toll	Aug	11 11	4	up-held by British court N Hazardous Substance Act see under	Aug	11	39
Strikes Atlas Chemical's Tamaqua, Pa. employ-				Toxic Substances Control Act Italy: Valerio, G. charged with misap-	Doc	16	32
ees ready to negotiate R Strike drags on; no settlement in	Aug	4	12	propriating Montedison funds R Job safety legislation BASF Wyandotte and OCAW dispute	Dec	15	32
workers return to work; contract	Aug	25	15	over who has access to the com- pany' monitoring records under the			
negotiations continue N	Sept	8	5, 15	new job safety law	Oct	6	12
Conalco strike goes on Dock strikes July 7-16, N July 14-9, July 21-15, Aug 18-26, Aug 25-15,	Nov	24	21	MCA workshop shows industry will have an abundance of new monitor- ing and record keeping requirements			
N Sept 1-5, Sept 22-26, N Sept 29-17, Oct 13-20, Nov 3-21	Nov	24	21	to meet standards	Sept	29	49
Taft-Hartley Act brings relief Dock strikes have darkened U.S.	Dec	8	18	unhappy" over Labor Dept.'s ad- ministering of the Occupational	Oct	12	17
balance-of-trade picture	Dec	8	20	Safety and Health Act N Lead-in-gasoline controversy see Gaso- line	Oct	13	"
spar plant struck	Oct	20	21	Lobbying: bill would effectively ham- string lobbying activities	Oct	20	27
Weyerhaeuser's employees on the West Coast accept a new 3-year contract N TV imports: unions seek "escape clause"	Sept	1	5	Magnuson bills aimed at easing the en- ergy crisis: one would create national energy research fund; the other di-			
relief under provisions of the Trade Expansion Act of '62		13	17	rects FPC to develop estimates of natural gas reserves	Aug	11	9
Union officers indictments on charges of embezzlement: Moffett and Bunch				Guard authority to establish and operate marine traffic regulation sys-			70
acquitted		10	20	tems in congested U.S. port waters N N.Y.C.'s container tax see Taxation	l Aug	18	73
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URW's Bommarito says imports causing unemployment; will ask the multina- tional tire and rubber companies to				repeal the Price-Anderson Act N	Aug	4	16
URW's Bommarito says imports causing unemployment; will ask the multina-				repeal the Price-Anderson Act	Dec Dec	8	16

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Pesticide control bill Pending legislation would impose	July	21	14
Bill requires imported food commodi-		21	
Dill hailed	Sept Sept	22	31
Bill passes the House	Nov	17	22
Pesticide producers would bear the bur- den of proving their products safe			
under a bill proposed by Rep. Dow . N	Oct	20	27
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plastic pipe fittings N Pollution cases, legislation see Air Pol-	July	21	17
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Stepan Chemical and Alfied have settled patent litigation involving a method for			
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Toxic Substances Control Act N July			
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338 to S.1478: death knell for small chemical companies? N	Nov	10	75
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General Battery's smelting plant in	C	20	24
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NPCA meeting: Major formulation changes are in store for the paint in-			
dustry N	Nov	17	51
NRC study says lead levels in air may- threaten children's health, but are not			
a hazard to the general population . N	Sept	15	35
Paint: FDA to restrict lead content in paint used on surfaces that might be			
exposed to children N	Nov	3	14
FDA proposes cut in lead content of	Nov	17	22
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Leasing			
Competitive sales of shale oil leases on federal land in Colo., Utah and Wyo.			
will begin in about a year	Nov	24	21
Interior Dept, grants leases to mine sodium salts in federal oil shale lands			
in Colo. N Offshore gas and oil lease plan backed . "Prototype program" for the commercial development of oil shale resources on	July	14	10
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ing N Texas Eastern Transmission files appli-	Nov	10	27
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esses and products for the chemical in-	Aug	4	31
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### Aug 25 13 Nov 3 17 Register company with a proving promising professional studying European (Nov 10 19 Place pages making prospects. R Nov 3 17 Register company with a proper in the progress (pages 1 19 Place pages 1 19 Place pages 2 19 Place pages 2 19 Place pages 2 19 Place pages 2 19 Place pages 3 19 Place	IP's Ticonderoga mill doesn't smell: pol- lution control to prevent the character-	Oct	13	29	Brazil will limit foreign capital in petro- chemicals to 1/3 of total investment . N			
Plastic page:	effluent	Dec	1	41	trously low profitability' leads to	A	05	10
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where by moteral the selection of Petronom. Aug 11 37 Petronom, c. Jay — Anaconda's chairman reigin postponen. Thailand project. N Aug 4 20 Petronom, c. Jay — Anaconda's chairman reigins	Patent literature provides new clues on				Feedstocks: "The U.S. petrochemical in- dustry '70-'85" - More than feedstock			
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Bolivia and Costa Rica discuss joint- versed or the U.S. will find itself de-	plan will be based on findings in survey	Sept	1	16	Oil profits up in '70			
	Bolivia and Costa Rica discuss joint-	July	21	35	versed or the U.S. will find itself de-	I Aug	11	14

Oil shale see Shale Oil			
Oil shale see Shale Oil Oil spills see Water Pollution Oil's huilding boom: What gesoling re-			
Oil's building boom: What gasoline re- fining changes mean for chemical plants (chart)	Sept	1	6
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Tenneco deal would swap American-built	Nov	17	23
Texas Sen. Tower introduces bill to stimulate oil and gas exploration; would give tax credit for domestic	Dec	8	14
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Washington N Drugmakers seek vaccine and pill to fight	Sept	15	13
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Phenol Enzymes detect and treat phenols in re-			
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Phosphates			
Detergent phosphates see Detergents Farmland Industries' complex at Bartow,			
Fla. will test a new process for mak- ing phosphoric acid	Sept	22	67
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Albright & Wilson's unit at Whitehaven works	Sept	1	16
at Bartow, Fla., will test a new process for making phosphoric acid Farmland Industries plans phosphoric and	Sept	22	67
euparahasahasia asid plant page Grana	Aug	11	10
Bay, Fla. R Farmland Industries' plant near Lakeland, Fla., onstream late '71 R Plant credits isothermal reactor with a	Sept	15	18
Plant credits isothermal reactor with a single 300-hp, agitator for savings . N	Sept	15	35
Photography Earth Resources Technology Satellite will			
eye pollution, test the latest monitor- ing gear	July	14	20
Silver systems that go into sensitized goods for the photographic market are still tops says GAF's Leibowitz			-
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Pigments Chemicals in coatings — report. Dikran			
Yazujian (charts & tables) Freeport Kaolin develops process for surface-modified pigments, "OX"	Oct	20	35
GAF ponders product shifts at Linden,	Aug	11	35
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Piping			
Australia: ethane pipeline across Port Phillip Bay delayed	July	7	40
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Japanese pipe is being sold here in viola- tion of the antidumping law charges				NYC's 2¢ tax on plastic containers battle July 7-12, Sept 8-17, Sept 29-24,
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plants based on ethane and propane , .	Oct	6	10	and void"
	Nov	24	19	Nigerian Hoechst's dispersion unit at Ikeja
Plastic: Justice Dept. charges five pro- ducers with conspiracy involving DWV	July	21	17	Nylons 11 and 12 bid for U.S. plastic molding and coatings jobs J. Paper
plastic pipe fittings N Rotterdam-Antwerp pipeline complex ex-				Acroline Co. formed by UC and Mead
Russia: ethylene pipeline system witi link	Dec	8	29 19	Paper N N Northern Petrochemicals' Slatin under- scores the progress plastic "paper" is
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Solids will move in pipelines using air as transport medium	Dec	22	31	FHA approves polyester-resin reinforced "paper" houses
Spain interested in Algerian proposal to pipe natural gas from North Africa to	500		0.	sion N J Reinforced plastics are making new inroads
Europe	Oct	6	19	into the construction market N C Snow, plastic: ethylene-vinyl acetate criss- cross strips lengthen ski season near
City N Texas natural gas pipeline system is being	Dec	22	31	Solvay moves deeper into plastics S
expanded 333 miles	July	21	13	Sweden has a new "self-destruct" an-
Transco unveils plans for pipeline trans- port of bulk products	Oct	27	17	Synthetic turf: NFLPA calls for "mora- torium" on artificial turf; Monsanto
chief executive officer will become chairman	Oct	13	27	says demands will not affect its sales of AstroTurf
port (maps, charts, table)	Aug	25	23	Vistron expanding its FRP production at Hawthorne, Calif., plant
Plasma — Tokomak not perfectly circular and it is this imperfection that results in heat loss, says Gulf scientists N	July	14	23	Waste disposal: Researchers try to develop degradable plastics for packaging. Waste disposal: Villain in solid wastes?
Plastic Film	July	1-4	20	'Wood' from plastic from Japan?
Celanese introduces new triple-threat polypropylene film N	Sept	22	73	
Cooking film market: UC introduces a		27	29	Plating Scovill Mfg,'s process for saving plating
turkey-size heat-sealed polyester bag . N Du Pont expanding PE film plant at	Oct		-	Technic, Inc. offers free consulting ser-
North Bay, Canada	Dec	1	21	vice for companies with plating problems
ICI will boost capacity of its Dumfries,	July	21	13	Platinum
Scotland, polyester film plant R Polyester film makers count on new uses	July	28	15	Demand: auto exhaust-control devices could double platinum use by '76, could
to spur sagging growth (chart)	Aug	18 14	67 33	flood markets for coproduced palladium
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Howard & Sons' phthalate plasticizer units at Cornwall, Ont., expansion R	Dec	1	21	Poland Contracts to Britain's Petrocarbon De-
Solid plasticizers prices N USS Chemicals adds unit to its Neville Island, Pa., plant	Sept	22	59 19	velopments for two projects R Du Pont's Corfam goes to Poland
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ing ABS resin capacity at Washington, W. Va., plant N	July	28	9	Polishes
ABS: Dow's polystyrene expansion at Terneuzen, Netherlands, will be	,			Consumers Union urges ban on petroleum-based furniture polishes
adapted to produce ABS N ABS: Monsanto completing an expansion for Lustran ABS plastic at Addyston,	Sept	29	27	Container rules set
O., and constructing ABS plant at Antwerp, Belgium	Sept	1	5	Industry's decision makers await govern- ment decision on freeze
ABS and carbonoxylated styrene-butadiene plant: Britain's International Synthetic				Lobbying: bill would effectively ham- string lobbying activities N
Rubber starts up plant	July	28	15	McLaren, R. and S. Kashiwa leave Justice Dept.; named to federal judgeships . N
shortages and boost prices (chart)	Aug	25 1	39 5	Republican politicans fighting over who gets 10 environmental regional direc-
ABS expansion at Yokkaichi, Japan N ABS is on the upbeat (table)	Sept	20	23	torships
ABS output is up sharply this year , , , N ABS plant of Marbon at Amsterdam practically destroyed by explosion and	July	14	33	the Council of Economic Advisers What's at stake for CPI companies in off- year elections.
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Partly back in operation by next	Sept	29	27	lem: Researchers try to develop degrad-
Australian plastics tariff could hurt PE	Sept	1	13	able plastics for packaging Polybutylene Terephthalate — GE's new
Automobiles: Ford's proposed safety car	Aug	4	10	family of thermoplastics polyesters, Valox
could broaden outlets for plastics Automobiles: plastics in '72 models – No big gains; auto makers ask sup-	Aug			Polychiorinated Biphenyls FDA states that the use of recycled paper
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Freeport Kaolin develops process for surface-modified pigments, "OX"			25	nationwide survey N Toxic properties of PCB studied by FDA
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conspiracy involving DWV plastic pipe fittings	July	21	17	front panel made of glass-fiber-reinforced polyester
Major plastics: growth curves flattening (charts)	Sept	8	27	Du Pont's cellular polyester called
- letter	Oct	6	5	Du Pont's nylon spinner units converted to polyester fiber production at
new products, technology Oct 27-41	Nov	10	19	Kingston, Ont., plant R

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Demonstrate March Color File	Conoco Plastics discontinues PVC				with the news that price ceilings can			00	Corco) that wi
Private Manager Mana	copolymers production N Denmarks's first PVC plant				be based on May 25, 1970 prices . N Wage-price freeze program could hurt	Sept			year of propyl
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Nov Postariam Postariam Postariam Nov 17 22 22 23 24 24 25 25 25 27 25 27 28 27 28 28 27 28 28	Yugoslavian buildup N				Chemical price, wage moves Queuing for price hikes				ing protein-f Sardinia .
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fers to tread, who's who's proposed in processing increase in domestic chemical commercial particles. Septimized the country is compared to septimized the country is energy of the country's energy o	Dec. 1	Oct	27	29	Sulfur sales restrictions will push prices				Protein powde holes in clot
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Power Concoc's McLean suggests three specifics to solve the country's energy Institute of the country's ener	will temporarily close metal powder				cooperate in market research and product	Nov	10	27	International Ticonderoga
Concor's McLean suggests three specifics to solve the country's energy shortage Concor's McLean suggests three specifics to solve the country's energy shortage Concord's McLean suggests three specifics to solve the country's energy shortage Concord's McLean suggests three specifics to solve the country's energy shortage Concord's McLean suggests three specifics to solve the country's energy shortage Concord's McLean suggests three specifics to solve the country's energy shortage Concord's McLean suggests three specifics to solve the country's energy shortage Concord's McLean suggests three specifics to solve the country's energy shortage Concord's McLean suggests three specifics to solve the country's energy shortage Concord's McLean suggests three specifics to solve the country's energy shortage Concord's McLean suggests three specifics to solve the country's energy shortage Concord's McLean suggests three specifics to solve the country's energy shortage Concord's McLean suggests three specifics to slow the country's energy shortage Concord's McLean suggests three specifics to slow the country's energy shortage Concord's McLean suggests three specifics to slow the country's energy shortage Concord's McLean suggests three specifics to slow the specific to short t	operation at Pointe-aux-Trembles, Que. N	Oct	13	57		,,,,,,			mill
Concoc's McLean suggests three specifics to solve the country's energy horbitronian in the country's energy in the country in the country in the country's energy en	B				Chemical and allied product shipments				pollution co acteristic kr
shortage	Conoco's McLean suggests three speci-				Commerce Dept. report (chart)	Sept	15	17	plant efflue Northwest Pa
Economists take new look at changing U.S. energy problems U.S. energy problems was be invested over the next 15 years to satisfy the anticipated U.S. energy requirement U.S. energy frequirement U.	fics to solve the country's energy shortage	Nov	10	75	(table)	Oct	6	15	plans for Cl
Lummus' Örr says some \$400 billion must be invested over the next 15 years to satisfy the anticipated U.S. energy requirement	Economists take new look at changing		10	19	Industrial operating rates in June '71 -	Aug	11	10	Paper firms p
to satisfy the anticipated U.S. energy requirement. MCA's meeting discusses big problems: profits, pollution, power	Lummus' Orr says some \$400 billion				In-line blending eliminates tanks and				high costs of Rayonier Que
MCA's meeting discusses big problems: profits, pollution, power Dec 1 16 McCracken, P, sees productivity increases gaths next year No Nov 10 13 Preservative Calenees's ChemStor new feed-grain preservative, also as high-energy animal feeds for beef cartite text-marketing program ChemStor groomed as chemical competitor to drying and airtight silos for feed storage Oct 0 50 Carbon No 18 storage uses of diethir/pypro-carbon No Nov 10 Carbon No 18 storage uses of diethir/pypro-carbon No 24 storage uses of diethir/pypro-carbon No 24 storage uses of diethir/pypro-carbon No 24 storage uses of the game	to satisfy the anticipated U.S. energy				ical products (flowsheets)	Nov	24	35	dissolving p Spring Chemi
Preservatives Celanses's ChemStor new feed-grain pressures described for beef cattle test-marketing program ChemStor groomed as chemical competitor to drying and airright silos for feed storage Sweden's NIPHS stops use of diethylpyro-carbonate as drink preservative. N Sept 1 43 Presses – Hydraulic press capable of productivity still the name of the game of the game LOP's Chemical industry's move to win higher prices will gain momentum N July 28 21 Pricis Chemical industry's move to win higher prices will gain momentum N July 28 21 CW's stock prices and index (table) July 7-17, July 14-18, July 21-16, July 21-19, Aug 413, Aug 11-13, Aug 18-32, Aug 25-17, Sept 1-12, Sept 8-18, Sept 15-09, Sept 22-28, Sept 29-25, Oct 6-16, Oct 13-30, Oct 20-24, Nov 17-26, Nov 24-22, Dec 1-20, Dec 8-21, Dec 15-25. Dec 215 Future price increases will be related to profits according to a formula set by the Price Commission N Nov 17 51 Novon's groomed as chemical competitions of the formula set by the Price Commission N Nov 17 51 Novon's groomed as chemical competition of the game and the groom of	MCA's meeting discusses big problems:	Sept			(table)	July	7	19	liquor proci
Calanese's ChemStor new feed-grain preservative, also as high-energy animal feeds for beef cattle test-marketing program. N Sept 8 25 ChemStor groomed as chemical competitor to drying and airtight silos for feed storage. Oct 6 50 Sweden's NIPH stops use of diethylipyro-carbonate as drink preservative. N Sept 1 43 Sweden's NIPH stops use of diethylipyro-carbonate as drink preservative. N Sept 1 43 Processes – Hydraulic press capable of producing higher pressures developed in Sweden. N Aug 25 47 Producting higher pressures developed in Sweden. N Aug 25 47 Producting higher pressures developed in Sweden. N July 14 48 Plastics Group v-p He knows the name of the game. July 14 48 Profitability septial industry's move to win higher prices will gain momentum. N July 28 21 Profitability septial industry's move to win higher prices will gain momentum. N July 28 21 Profitability see also Finandal Price. Spot 29-25, Oct 6-16, Oct 13-30, Oct 20-24, Nov 17-26, Nov 24-22, Nov 10-24, Nov 17	profits, pollution, power	Dec	1	16	McCracken, P. sees productivity increas-	Nov	10	13	Purchasing age prices are fire
servative, also as high-energy animal feeds for beef cattle test-marketing program N Sept 8 25 ChemStor groomed as chemical competitor to drying and airtight silos for feed storage Oct 6 50 Sweden's NIPH stops use of diethylipyrocarbonate as drink preservative N Sept 1 43 Process — Hydraulic press capable of producing higher pressures developed in Sweden N Aug 25 47 Producing higher pressures developed in Sweden N Aug 25 47 Producing higher pressures developed in Sweden N Aug 25 47 Producing higher pressures developed in Sweden N Aug 25 47 Producing higher pressures developed in Sweden N Aug 25 47 Productivity: still the name of the game Viewpoint Nov 3 5 reasonable of the game Nov 3 5 reasonable of the game Nov 3 5 reasonable of the game Niewpoint Nov 3 5 reasonable of the game Niewpoint Nov 3 5 reasonable of the game Nov 3 5 reasonable of the game Niewpoint Nov 3 5 reasonable Niewpoint Nov 3					Operating rates far from "ideal" -				Pyrolysis — Py Pfizer
ChemStor groomed as chemical competitor to drying and airtight silos for feed storage Oct 6 50 Sweden's NIPH stops use of diethylipyrocarbonate as drink preservative N Sept 1 43 Producing higher pressures developed in Sweden N Aug 25 47 Producing higher pressures developed in Sweden N Aug 25 47 Producing higher pressures developed in Sweden N Aug 25 47 Producing higher pressures developed in Sweden N Aug 25 47 Productivity: still the name of the game Nov 3 5 Radiation of the game	servative, also as high-energy animal				(chart)	July	7	14	
Chemical industry's move to win higher prices will gain momentum Nordies will gain prosesting species will gain former will all gain gain gain gain gain gain gain gain		Sept	8	25	Economics Dept. data (table)	Dec	8	19	
for feed storage Oct 6 50 nomics Dept. report (Leibel) Dec 22 14 lirrading storage of diethylpyrocarbonate as drink preservative N Sept 1 43 report of Dutput, housing up – Commerce Dept. report Nov 24 18 No repose. The productivity: still the name of the game Nov 3 5 Productivity: still the name of the game of the game Nov 3 5 Productivity: still the name of the game Nov 3 5 Productivity: Sept 1-1 No	ChemStor groomed as chemical com-				Outlook for long-range growth: about 6%/yr until '85 — McGraw-Hill Eco-				Radiation
Carbonate as drink preservative N Sept Presses – Hydraulic press capable of producting higher pressures developed in Sweden V Greyonit N Aug 25 47 Productivity - Still the name of the game - Viewpoint N N V 3 5 Productivity Commission: Nixon plans to convene special conference N Aug 81 7 Productivity Commission: Nixon plans to convene special conference N Aug 81 7 Rains of the game of the game V Greyonit N Sept 1 Profitability - Maintenance management special conference N Aug 81 7 Rains of the game of the game N Aug 82 1 8 Productivity: still the name of the game V Greyonit N Sept 1 Productivity Commission: Nixon plans to convene special conference N Aug 81 7 Rains of the game N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Aug 85 9 Rains of the game N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special conference N Sept 1 Profitability - Maintenance management special co	for feed storage	Oct	6	50	nomics Dept. report (table)	Dec	22	14	Irradiation to tion into di
ducing higher pressures developed in Sweden Sweden Sweden Nove 1	carbonate as drink preservative N	Sept	1	43	report	Nov	24	18	No routine ra nuclear pov
Sweden Price, Robert, Jr. – UOP's Chemicals & Plastics Group v-p. He knows the name of the game. July 14 48 Prices Chemical industry's move to win higher prices will gain momentum. N July 28 21 Prices Chemical industry's move to win higher prices will gain momentum. N July 28 21 Prices Chemical industry's move to win higher prices will gain momentum. N July 28 21 Prices Chemical industry's move to win higher prices will gain momentum. N July 28 21 Profitability see also Finandal Progna Ethylene plants of the future: new accent on heavier feedstocks. Sept 129-25, Oct 6-16, Oct 13-30, Oct 20-24, Nov 17-26, Nov 24-22, Nov 10-24, Nov 17-26, Nov 24-22, Nov 10-24, Nov 17-26, Nov 24-22, Nov 10-24, Nov 17-26, Nov 24-22, Nov 10-26, Cet 10-25, Dec 22 15 Future price increases will be related to profits according to a formula set by the Price Commission. N Nov 17 51 Nixon's game plan Hold-the-line decisions announced. N July 7 18 Nov 18 28 29 Progna Progna Progna Sept 12 neeting shetwed. N Sept 8 9 Kans Sept 21 meeting shetwed. N Sept 1 48 Prices isos Finandal Progna Chemical reduction is mixed. N Sept 1 48 Prognation in meet profitability challengers its skills to meet profitability challenge - report. Kenneth Brocks (chars & itable). Progna Sept 21 meeting shetwed. N Sept 1 45 Prognation in meet profitability challengers its skills to me	ducing higher pressures developed in				- Viewpoint	Nov	3	5	reactors say
Plastics Group v-p. He knows the name of the game July 14 48 Priosa Chemical industry's move to win higher prices will gain momentum N July 28 21 OW's stock prices and index (table) N July 28 21 OW's stock prices and index (table) N July 21-16, July 14-18, July 14-18, July 12-16, July 14-18, Sept 15-29, Sept 22-28, Sept 29-25, Oct 6-16, Oct 13-30, Oct 20-24, Nov 17-26, Nov 24-22, Nov 10-24, Nov 17-26, Nov 24-22, Nov 10-24, Nov 17-26, Nov 24-22, Nov 10-24, Nov 17-26, Nov 24-22, Nov 10-26, Nov 10-26, Nov 24-22, Nov 10-26, Nov 10-26, Nov 24-22, Nov 10-26, Nov 10-26, Nov 10-26, Nov 24-22, Nov 1		Aug	25	47	convene special conference	N Aug	18	17	Radioactivity atomic dispo
Prices Chemical industry's move to win higher prices will gain momentum OW's stock prices and index (table) OW's stock prices and index (t	Plastics Group v-p: He knows the name	lide	14	40	Sept. 21 meeting shelved	N Sept		9	Kansas; decis licenses for r
Chemical Industry's move to win higher prices will gain momentum. N July 28 21 Charts & table) Profitability see also Financial Strik Coverage of the following strike profitability see also Financial Coverage of the following strike profitability see also Financial Coverage of the following strike profitability see also Financial Coverage of the following strike profitability see also Financial Coverage of the following strike profitability see also Financial Coverage of the following strike profitability see also Financial Coverage of the following strike profitability see also Financial Coverage of the following strike profitability see also Financial Coverage of the following strike profits seed on ethane and propane out of 10 strike prices to make acrylonitrile from propane out of 10 strike profits according to a formula set by the Price Commission Noverage of the following strike profits according to a formula set by the Price Commission Noverage of the following strike profits according to a formula set by the Price Commission Noverage of the following strike profits according to a formula set by the Price Commission Noverage of the following strike profits according to a formula set by the Price Commission Noverage of the following strike profits according to a formula set by the Price Commission Noverage of the following strike profits according to a formula set by the Price Commission Noverage of the following strike profits according to a formula set by the Profitability see also Financial Control of the wind strike profits according to a formula set by the Profitability see also Financial Control of the wind strike profits according to a formula set by the Prices of the future: new according to a formula set by the Prices of the future: new according to a formula set by the Progene Control of the wind strike profits according to a formula set by the Prices of the future: new according to a formula set by the Progene Control of the wind set of the future: new according to a formula set by the Progene		July	144	40	sharpens its skills to meet profitability				
Chris stock prices and index (table) July 7-17, July 14-18, July 21-16, July 28-19, Aug 4-13, Aug 11-13. Aug 18-22, Aug 28-17, Sept 1-12, Sept 8-18, Sept 15-20, Sept 22-28, Sept 29-25, Oct 6-16, Oct 13-30, Oct 20-24, Oct 27-22, Nov 3-22, Nov 10-24, Nov 17-26, Nov 24-22, Dec 1-20, Dec 8-21, Dec 15-25. Dec 1-20, Dec 8-21, Dec 15-25. Dec 1-20, Dec 8-21, Dec 15-25. Dec 1-20, Sept 20-24, Dec 15-25. Dec 1-20, Sept 20-24, Dec 15-25. Dec 1-20, Sept 20-24, Dec 20-24, Dec 15-25. Dec 1-20, Sept 20-25. Process to make acrylonitrile from propane. Dec 1-20, Dec 8-21, Dec 15-25. Dec 1-20, Sept 20-25. Process to make acrylonitrile from propane. Dec 1-20, Sept 20-25. Process to make acrylonitrile from propane. Dec 1-20, Sept 15-31 Sept 15-31 Gui Prices. N Sept 20-59 Rai Process to make acrylonitrile from propane. Dec 1-20, Sept 15-31 Sept 15-31 Cut Prices. N Sept 20-59 Rai Process to make acrylonitrile from propane. Dec 1-20, Sept 15-31 Sept 15-31 Cut Prices. N Sept 20-59 Rai Process to make acrylonitrile from propane. Dec 1-20 Sept 15-31 Sept 15	Chemical industry's move to win higher				(charts & table)	Dec	1	45	Freight rates
July 7-17, July 14-18, July 21-16, July 28-19, Aug 4-13, Aug 11-13, Aug 18-32, Aug 25-17, Sept 1-12, Sept 8-18, Sept 15-20, Sept 22-28, Sept 29-25, Oct 6-16, Oct 13-30, Oct 20-24, Nov 17-26, Nov 24-22, Dec 1-20, Dec 8-21, Dec 15-25, Dec 22 15 Future price increases will be related to profits according to a formula set by the Price Commission N Nov 17 51 Nixon's game plan Hold-the-line decisions announced N July 7 18 Propaga N Sept 22 59 Rain	CW's stock prices and index (table)	July	28	21	Profitability see also Financial				Strikes Chemical si
Sept 29-25, Oct 16-16, Oct 13-30, Oct 20-24, Oct 27-25, Nov 3-22, Nov 10-24, Nov 17-26, Nov 24-22, Nov 10-24, Nov 17-26, Nov 24-22, Oct 3-22, Oct 20-24, Nov 18-24, N	July 7-17, July 14-18, July 21-16, July 28-19, Aug 4-13, Aug 11-12				Propens Ethylene plants of the future: new ac-				with poss
Sept 29-25, Oct 16-16, Oct 13-30, Oct 20-24, Oct 27-25, Nov 3-22, Nov 10-24, Nov 17-26, Nov 24-22, Nov 10-24, Nov 17-26, Nov 24-22, Oct 3-22, Oct 20-24, Nov 18-24, N	Aug 18-32, Aug 25-17, Sept 1-12,				cent on heavier feedstocks	Sept	15	31	Break in ra Gulf Coast
Dec 1-2U, Dec 8-21, Dec 19-25. Dec 22 15 pane	Sept 8-18, Sept 15-20, Sept 22-28, Sept 29-25, Oct 6-16, Oct 13-30,				plants based on ethane and propane	Oct	6	10	strike Rail rates u
Dec 1-2U, Dec 8-21, Dec 19-25. Dec 22 15 pane	Oct 20-24, Oct 27-22, Nov 3-22, Nov 10-24, Nov 17-26, Nov 24-22				Prices	V Sept	22	59	Rail strike, Transportation
profits according to a formula set by the Price Commission	Dec 1-20, Dec 8-21, Dec 15-25	Dec	22	15	pane	V Oct	20	69	tion - repr
Nixon's game plan test-marketing program for a new feed-Hold-the-line decisions announced N July 7 18 grain preservative, ChemStor, also as Rauch, Chemical executive reaction is mixed high-energy animal feed for beef chief	profits according to a formula set by			F.					VCM tank or
Hold-the-line decisions announced N July 7 18 grain preservative, ChemStor, also as Rauch. Chemical executive reaction is mixed high-energy animal feed for beef chief	Nixon's game plan				test-marketing program for a new feed-				Missouri Pa Houston, T
to wage-price controls N Aug 4 5 cattle N Sept 8 25 and s	Chemical executive reaction is mixed		7						Rauch, Thoma chief executi
	to wage-price controls	N Aug	4	5		N Sept	8	25	and profits

Chamitas aroumed as chamical cam			
ChemStor groomed as chemical com- petitor to drying and airtight silos		_	
for feed storage	Oct	6	50
erosion, may provide breeding areas for marine life	July	14	37
ropylene see also Polypropylene ropylene Glycol – PPG licenses process			
from Kuraray Co.; putting onstream at Penuelas, P.R., an olefins plant (with			
Corco) that will make 650 million lbs/ year of propylene coproducts N	Oct	27	37
year or propyrene coproducts	001		0,
ropylene Oxide Dow's Midland, Mich., plant closed N	Sept	1	33
Dow's prices of propylene oxide, pro-			
pylene glycol and dipropylene gly- col	Aug	18	73
Oxirane plant at Bayport, Tex., will be back onstream by the end of Aug.:			
col Oxirane plant at Bayport, Tex., will be back onstream by the end of Aug.: cause of the blast not yet revealed N Plant now onstream N Sept 1-33 R	July Sept	7 22	33
	Sop.		
rotein Acadia Fisheries, only supplier for a			
FPC plant at Canso, Nova Scotia, goes	Sept	15	17
FPC: Nova Scotia initiates bankruptcy	Sopt	10	17
proceedings against Cardinal Protein	Nov	3	23
Italproteine studying feasibility of build- ing protein-from-hydrocarbon plant in			
Sardinia	Sept	8	19
istry sets up program to develop	Des	1	42
process	Dec		43
holes in clothing upholstery and rugs is a new twist in chemical "sewing"	Sept	22	61
Proteins add muscle to toiletries and	Aug	4	21
Synthetic proteins: Liquigas negotiating			-
to license technology from Dainippon	Nov	10	87
Puerto Rico			
Corco's petrochemical expansion plans	Oct	13	22
Du Pont planning big dyes project	Aug	4	12
Hydrocarbon processing increase seen as Corco contracts with Algeria's Soc. Nationale Sonatrach for feedstocks . N			
Nationale Sonatrach for feedstocks . N Kennecott and Amax wrangle with	Dec	22	9
Puerto Rico over copper mining	Oct	27	17
Nuplex may find home in Puerto Rico	July	14	26 49
rs commission approves plan N	July	21	49
Pulp			
International Paper to dedicate Ticonderoga, N.Y. pulp and paper			
mill	Oct	13	29
pollution control to prevent the char- acteristic kraft-mill odor and treat			
plant effluent	Dec	1	41
plans for Cloquet, Minn-plant being		01	15
trimmed	July	21	15
Hayonier Quebec plans to build three	July	14	14
dissolving pulp mills in Canada N Spring Chemicals' system for spent sulfite	July	7	10
liquor processing N Purchasing agents report: orders are up,	Sept	29	51
prices are firming	Sept	15	18
Pyrolysis — Pyrolytic graphite ribbon from Pfizer	July	21	24
_			
R			
Rediation Irradiation turns acrylic-oak combina-			
tion into durable flooring	July	14	37
nuclear nower plants using fast-breeder			
reactors says AEC N Radioactivity – AEC scraps plans for	July	21	49
atomic disposal dump near Lyons, Kansas; decision could hold up			
licenses for new power plants N	Oct	13	71
Railroads			
Freight rates see Freight Rates Strikes			
Chemical shippers ponder how to deal	July	14	17
with possible rail strikes Break in rail strike? Gulf Coast chemical plants hard hit by	July	28	17
Guit Coast chemical plants hard hit by strike	Aug	4	10
Rail rates up again?	Aµg Sept	11 29	12
Rail strike, maybe N Transportation new frontier for innova- tion — report. John Winton (chart &			
table) VCM tank cars explode as 18 cars of	Sept	29	53
	0.	-	~~
Houston, Tex. Rauch, Thomas — SKF's president and 'chief executive officer: Raises dogs	Oct	27	20
chief executive officer: Raises dogs and profits	July	7	48

laura.				D O//				Continue the solution and false continue			
Fiber producers seek price increases	Dec	8	17	Patent Office: two-month wait for ap- pointment of new commissioner					Oct	6	19
under Phase II guidelines (chart) N	Aug	11	18	focuses attention on problems of licensing practices, antitrust violations,				U.S. delegation representing chemical engineering and equipment firms off to			
Prices N Dec 15-27 N Tire-cord yarn prices N	Dec Aug	22 18	27 73	delays in patent processing Pesticide R&D - letter	Oct July	20 28	59 5	Russia and Rumania N VCM plant	Nov Aug	3	43 19
Reactors				Photopolymers broaden markets in elec- tronics, metal parts	Oct	27	39	Russia			
Ammonia plants with 3,000-tons/day reactors are technically feasible N Farmland Industries' phosphate com-	Sept	8	40	Russians offering technology-for-license package with a raft of processes and products for the chemical industry				British polyester fiber complex at Mogilev; no harassment or reprisals for			
plex at Bartow, Fla., will test a new		00	0.7	(tables)	Aug	4	31		Oct	6	19
process for making phosphoric acid Farmland Industries' phosphoric acid	Sept	22	67	Russians sign technical cooperation agree- ments with Hoechst and Henkel N	Nov	24	43	Chemical and petrochemical output rose about 11% in first six months of '71 N	Aug	4	20
plant near Lakeland, Fla., credits isothermal reactor with a single 300-				Solid-waste disposal problem: Research- ers try to develop degradable plastics				Chemical production up N Contracts for equipment for ammonia	Nov	10	27
hp. agitator for savings N No routine radiation will be released from	Sept	15	35	for packaging	Dec	8 15	45 36	plants with Toyo Engineering R	Dec	15	33
nuclear power plants using fast-breeder	July	21	49	Trade secrets: Conference Board survey	000		00	DMT plant completed	Sept	1	10
Platform-mounted offshore nuclear				reports on why it's hard to keep a secret	Dec	15	36	plex at Nijnekamsk with Kazan N France will buy natural gas N	Sept Aug	8	31
U.S. breeder-reactor demonstration proj-	Aug	18	98	Tungsten: NBS work could open commer- cial doors for organic derivatives of				Franco-Soviet oil refinery in France and French aid in building cellulose plant in			
ect gets boost from Congress	Aug	4	12	transition elements N U.K. study shows why some R&D proj-	Nov	10	75	Russia possible	Aug	18	3
GE N The man behind GE's most important	Aug	25	9	ects never get out of the lab (table)	Oct	6	45	Solvay technology	Aug	4	15
chemical process	Sept	15	48	Resins				USSR	Oct	27	4
efining				ABS see Plastics Chemicals in coatings — report, Dikran				Nixon's planned China visit will affect U.SSoviet relations	July	28	1
Bolivia and Costa Rica discussing joint- venture possibilities N	July	21	35	Yazujian (charts & tables) Diamond's license agreement with	Oct	20	35	Petrochemical deals with U.S. likely even if trade barriers are not removed N	Dec	15	3
BP's Rotterdam refinery increases capacity	July	7	45	Sumitomo for the manufacture of its cation-type Duolite ion exchange res-				Soviets to help Algeria develop its oil- gas and petrochemical industries N	Nov	24	4
CFP Total's Netherland refinery N Imperial Oil's refinery at Dartmouth,	Sept	22	51	ins in Japan	Sept	15	18	Sulfuric acid plants will be built by	Sept	15	2
Nova Scotia, expansion	Sept	8	16	Eastman plant at Longview, Tex. started up	Nov	10	61	Techmashimport polyester fiber plant			
Meraux, La. and Superior, Wis R	Aug	25	16	Epoxy resin plant at Chiba Works, Japan	Nov	3	17	onstream at Mogilev	July	21	3
Oil refining capacity must be quickly reversed or the U.S. will find itself			14	Epoxy resin production N High-energy magnetic tapes sound off	July	14	33 36	Hoechst and Henkel signed N Technology: Soviet Union offering	Nov	24	4
dependent on foreign refineries N Oil's building boom: What gasoline refin-	Aug	11	14	Japanese-French joint venture urethane resins plant	July	14	40	licenses on some of its petrochemical technology	July	14	2
ing changes mean for chemical plants	Sept	1	6	Major plastics: growth curves flattening (charts)	Sept	8	27	Technology-for-license package with a raft of processes and products for the	-		
(chart) Rental Business — Miet-Textil, joint venture, will rent industrial clothes N	July	21	35	- letter	Oct	6	5	chemical industry (tables) Tenneco deal would swap American-built	Aug	4	3
	outy	-		plant, Tex	July	21	49	ships and grain farm equipment for			
esearch Alcoa jungle lab is on its way to analyze		10	00	Polyester-resin reinforced "paper" houses approved by FHA	Aug	11	11	Russian natural gas and oil N Tokomak not perfectly circular and it is	Dec	8	1
mineral deposits in Brazil N Alza Corp. scientist V. Place says some	Aug	18	88	Silicone resins prices N	July	28 21	21 41	this imperfection that results in heat loss, says Gulf scientists N	July	14	-
foods eaten while taking certain medi- cations can be harmful or even fatal . N	Sept	15	35	Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31	Trade boost with the West is expected to result from the visits by top Soviet			
American Chemical Society (162nd) meet- ing: Comparing notes on research	Sept	22	69	Reverse Osmasis		-		leaders to Algeria, Canada and	Nov	3	
Cabot's silane-coated silicon dioxide is being readied for application as a coat-	-	-		Ajax International will build the world's				U.S.S.R. seeks joint ventures with West	Oct	20	-
ing for metals, paper, wood and tex-				largest r-o water treatment plant at Santa Barbara, Calif N	July	14	23	U.S. delegation investigates business op- portunities	Nov	17	1
tiles — it also may help in cleaning up oil spills	Sept	8	39	Du Pont wins Kirkpetrick Award for Permasep filter development	Oct	6	14	U.S. delegation representing chemical engineering and equipment firms off to			
- letter	Oct	13	5	Gulf South Research Institute process for applying RO to the refining of a petro-				Russia and Rumania N VC monomer plant will use U.S. tech-	Nov	3	
chalcone (NHD), promises a sweetener without calories	July	21	21	chemical waste stream	Dec	8	42	nology N	Sept	8	
Closed-circuit tv helps researchers keep up	Nov	10	71	solid- and liquid-fueled rocket facilities to	Sept	15	35	S			
with new technology				chemical production N	Sopt	10	30				
will pinpoint major developments in which foreign countries are substantially				Rosin Hercules' Brunswick, Ga. naval stores			-	Safety Automobiles see Automobiles			
ahead of U.S N "Conquest of Cancer" agency called for to	July	21	17	plant cleaning up pollution problems Naval stores prices N	Aug	25 7	19	Consumers Union urges ban on house- hold cleaning products	Aug	25	
speerhead the attack on cancer DDT: biodegradable versions of DDT . N	Sept	15	37 33	Rubber				Detergents see Detergents Drugs see Drugs			
DDT may be able to slow the growth of a specific cancer	Sept	8	40	Battelle Memorial: EPA grant to study the potential usefulness of rubber from				Food additives see Food Additives GAF suspends manufacture of liquid			
Enzymes detect and treat phenols in refinery and chemical wastes	Sept	22	63	discarded tires in blacktop dressings for driveways and parking lots R	July	28	18	chlorine and caustic soda at its Linden, N.J., plant because of mercury prob-			
Federal R&D turns up	Sept	22	70	Du Pont's Montague neoprene plant		22	22	lems	Oct	6	
tation with metaldehyde	Nov	24	41	doomed by high operating costs EPDM producers fight for bigger share of	Sept			Hazardous chemicals: MCA sets up Chemtrec as a new means of providing			
for measuring poliution	Oct	20	61	the rubber market (charts)	Nov	24	27	safety and handling information N Hazardous materials: hearing on safety	Sept	8	
FDA's shortage of manpower means ap- proval delays for chemicals	Nov	17	61	Antwerp, Belgium, completed R Pilot studies on a novel urethane cross-	July	28	18	standards for transportation critizes DOT	Nov	24	
GE process for milder nitrations Government charts point up R&D's role	Nov	24	42	linking system for rubber N Polymer Corp. asks for a finding that	July	28	40	H-E-W's list of toxic substances for use in the enforcement of the new Occupa-			
in trade	July	7	28	imports of styrene-butadiene rubber by				tional Safety and Health Act Job-safety legislation see Law	Aug	18	
Hoechst's Theiss suggests research partner- ships with chemical producers at home	· wag			dumping of the material by its			00	Joint management-labor safety committee			
and abroad	Oct	13	31	Japanese producer	July	21	33 41	suggested by OCAW's Davidson Leed see Leed	Nov	17	
Interdisciplinary research: lab directors find they need help from experts in a				Shell dropping SBR	Nov	17	23	MCA panel on occupational safety Nuclear safety see Atomic Power	Dec	1	
lot of other sciences to come up with good solutions (table)	Aug	25	43	ity at Pernis, Holland complex I Synthetic rubber is the biggest market	July	28	15	OCAW may bring action against Mobile Oil in job safety dispute	Dec	8	
Iowa State University researchers find green plants might make sophisticated				of all butadiene use	Nov	3	41	Pipeline safety see Piping Pollution control see Air Pollution, En-			
pollution detectors N Malaria-carrying mosquitoes build up re-	Aug	25	47	eight-hour day	July	7	16	vironment, Water Pollution PCB under scrutiny	Oct	13	
sistance to insecticides	Aug	4	36	unemployment; will ask the multina-				Tire standards costly industry com-			
Narcotic antagonist: Drugmakers seek vaccine and pill to fight narcotic ad-			20	tional tire and rubber companies to make regular contributions to URW's				plains Toxic Substances Control Act see Law	July	7	
diction	Sept	1	39	supplemental unemployment benefit plan pegged to the differences in unit				"Unity on asbestosis" - Clearing the air - letter	Sept	29	
NASA searching for ways to use its tech-		~	33	labor costs between an item made in	Nov	24	13	Selesmen's Assn. of the American Chemi- cal Industry – 50th anniversary; will			
NASA searching for ways to use its tech- nology to solve problems in pollution and clinical medicine	Nov	24				-	-				
NASA searching for ways to use its tech- nology to solve problems in pollution and clinical medicine N NSF's latest R&D compilation, "Research				the U.S. and overseas	Cos	6	56	present its first Man-of-the-Year Award			
NASA searching for ways to use its tech- nology to solve problems in pollution and clinical medicine	Nov Sept		40	politican patrols vast pollution beet	Oct	6	56	to Millmaster Onyx Chairman Robert Milano	Oct	13	
NASA searching for ways to use its tech- nology to solve problems in pollution and clinical medicine NSF's latest R&D compilation, "Research and Development in Industry, 1969" Natural gas industry and Dept. of In- terior will launch joint research pro- gram to develop commercial coal	Sept	1	40	politican patrols vast pollution beet Rumania Acrylonitrile plant at Pitesti contract goes	Oct	6		to Millmaster Onyx Chairman Robert Milano			
NASA searching for ways to use its technology to solve problems in pollution and clinical medicine NSF's latest R&D compilation, "Research and Development in Industry, 1969". Natural gas industry and Dept. of Interior will launch joint research pro-	Sept Aug July			politican patrols vast pollution beat	Oct	1 24	56 21 21	to Millmaster Onyx Chairman Robert Milano	Dec	13 15 20	

Runway de-icers get set for fast take-off	Nov	24	29		Sicily see Italy			
Scotland – ICI will boost capacity of Dumfries polyester film plant R	July	28	15		Silica — New forms of silica that repel water are looking for chemical jobs	Sept	8	39
Seaweed - Propylene seaweed prevents shore erosion, may provide breeding					- letter	Oct	13	5
areas for marine life	July	14	37		silicate is a poor and dangerous re- placement for phosphate in detergents continues to mount	July	28	21
performs men, helps double sales of chemical specialties within a year	Sept	1	35		Silicon Carbide — Scrubbing brush impreg- nated with silicon carbide called Poly-			
Selling see also Marketing ; see also specific chemical, commodity etc. Semiconductors – GE–MOV metal oxide					Grit Silicon Dioxide — Cabot's silane-coated silicon dioxide is being readied for ap-	Nov	24	31
varistors — new family of semi- conductors	Dec	22	31		plication as a coating for metals, paper, wood and textiles — it also may help in			
	500	2.2	01		cleaning up oil spills	Sept	8	39 27
Separation Calgon develops a molecular-screening					Silicone-glycol - Dow Corning introduces	Dec	22	21
activated carbon for separating hydro- carbons and other compounds N	Aug	18	87		wetting agents based on silicone-glycol copolymers	Dec	15	39
Esso Research's separation technique adapted for use in blood oxygenation .	Sept	22	69		Silver			
Patent literature provides new clues on	Sept	22	69		Prices: sagging prices may get some	Oct	13	57
commercial routes for separating para-			0.7		government support N Production down N	Dec	8	29
xylenes by molecular-sieve adsorption , Sequestrants — Case for sequestering agents	Aug	11	37		Systems that go into sensitized goods for the photographic market are still tops			
- letter	July	21	5		says GAF's Leibowitz	Nov	24	28
Sewage Treatment Bethlehem Corp.'s Porcupine Processor —					Sumitomo plans complex N	Dec	22	19
a new way to dry sewage N Centrifuges designed for dewatering	Aug	11	40		Smelting — Mitsubishi Metal's copper smelting process is economical, pollution-			
chemical plant wastes can cut the					free	Nov	24	33
costs of secondary treatment and incineration	Dec	15	37		cross strips lengthen ski season near -Bergamo, Italy	Sept	1	11
Compact plant, that looks like a home, will convert development's wastes into an ash and water of potable standard					Soap & Detergent Assn. – Purex and Armour-Dial quit SDA; other soaper with a stake in nonphosphate detergents may	зерт		,,
N July 28-39	Aug	4	23		follow them out	Nov	10	61
proving treatment methods of removing					Soeps			
detergent phosphates from sewage plant wastes	Oct	6	47		Nader wants FDA to tighten control on			
Navy moves to adopt shipboard sewage treatment process	Dec	15	20		soaps and deodorants containing hexa- chlorophene, charging that chemical			
New Yorkers defeat amendment on sew- age-treatment units	Nov	10	18		causes brain damage in animals R Washington hearings: CU's Lushbough	Dec	8	19
Overflow treatment systems could be an					urges a return to soap while industry develops a safe phosphate replace-			
economical alternative to cost of sep- arating sewers throughout the U.S N Sewing, Chemical — Protein powder for	Oct	13	71		ment	Nov	3	23
mending rips and holes in clothing, up- holstery and rugs is a new twist in chem-					Medal to Carroll Hochwalt	Oct	13	23
ical "sewing"	Sept	22	61		Society of the Plastics Industry			
Shale Oil Competitive sales of shale oil leases on					National Plastics Exposition will feature new products, technology Oct 27-41	Nov	10	19
federal land in Colo., Utah and Wyo.	Nov	24	21		N.Y.C.'s container tax see Plastics Waste disposal report based on a one-year			
will begin in about a year Interior Dept. grants leases to mine salts	Nov	24	21		study by Kaiser and Carotti of NYU	July	28	26
in federal oil shale lands in sodium Colo	July	14	10		Soda Ash			
"Prototype program" for the commercial development of oil shale resources on					Evidence that soda ash and silicate is a poor and dangerous replacement for			
federal lands in Colo., Wyo., and	July	7	18		phosphate in detergents continues to mount	July	28	21
Shampoo - Proteins add muscle to toilet-					Green River, Wvo. expansion — Allied.			
ries and cosmetics	Aug	4	21		FMC and Stauffer	Oct	20 15	22 27
Shipping Dock strike: Reopening of East and Gulf					Wyoming soda ash mines expansion N Sodium — Interior Dept, grants leases to	July	7	33
Coast ports eases shipping problems Dock strike see also Labor	Dec	8	18		mine sodium salts in federal oil shale	July	14	10
Freight rates see Freight Rates Hazardous chemicals: MCA sets up					lands in Colorado			
Chemtrec as a new means of providing					cury removal	Dec	8	43
safety and handling information N Hazardous materials: hearing on safety	Sept	8	25		Sulfate — Surface-active agents developed by IIT show promise of eliminating the			
standards for transportation critizes	Nov	24	20		need for phosphate in home laundry	Dec	1	43
Marine regulation: bill gives the Coast		-			Sodium Hydrosulfite - Indian plant	Sept	15	23
Guard authority to establish and oper- ate marine traffic regulation systems					Sodium Nitrite – India's first plant Sodium Perborate Tetrahydrate – Boron	July	21	33
in congested U.S. port waters N Philadelphia voters approve bond issue	Aug	18	73		under fire because of alleged harmful effects to vegetation, and interfernce with			
providing for improving airport cargo	Nov	10	18		sewage-treatment processing N	Nov	10	61
Plant sites '71 report - transportation					Sodium Polysilicates – Dry powder, hy- drous sodium polysilicates, developed for detergents and cleaning compounds.			
costs, J.M. Winton (charts & tables) St. Lawrence Seaway: Dow wants season	Oct	13	38		for detergents and cleaning compounds . Sodium Sequicarbonate – Prices , N	Aug	18	41
extended beyond the present mid- December closing N	Nov	24	14		Sodium Sulfite — CIL plans plant at Cornwall, Ont		1	10
St. Lawrence Seaway overcrowding sparks a dispute over winter closing					Sodium Tripolyphosphate	Copt		
date	Dec	15	20		Nonphosphate detergents hurt STF? out-			
Tennessee-Tombigbee waterway: EDF sues to block construction on environ-					put	Dec	1 22	29 27
mental grounds N Texas Gulf Coast needs supertanker	July	21	9		Soil Stabilizers - Propylene seaweed pre- vents shore erosion, may provide breeding			
facilities study shows Transportation new frontier for innova- tion — report, John Winton (chart &	Aug	4	9		areas for marine life	July	14	37
U.S. military transport removes the last	Sept	29	53		ger runs Belgium's biggest chemical maker	Sept	29	68
quantity (825 tons) of mustard and nerve gas from Okinawa R	Sept	22	24		Solvents Chemicals in coatings – report, Dikran			
U.S. suit with foreign firms over alleged monopoly in transatlantic shipping	Dec	22	16	1	Yazujian (charts & tables) NPCA meeting: Major formulation	Oct	20	35
Vibrating bins offer new ways to keep bulk solids moving	Aug	4	35	-	changes are in store for the paint industry	Nov	17	51
Shipping see also Barges; Railroads; Tank- ers; Trucks					Space Technology			
Shoes - Poromeric materials: New poro- merics rush where Corfam fears to tread;					Apollo 15 astronauts using new antifog- ging compound on their helmet vi-			
who's who in poromerics (table)	July	7	30	1	sors ,	Aug	4	34

Earth Resources Technology Satellite will eye pollution, test the latest monitoring			
gear	July	14	20
Spain Algerian proposal to pipe natural gas			
from North Africa to Europe interests Spain N BASF Espanola's oxo-alcohol plant at	Oct	6	19
Tarragona	July	7 20	45 30
Butadiene expansion of calattave Butadiene plant will use Japanese process ess R Chemical spurt Report with UE-Rin	Oct	4	19
	Dec	22	21
Tinto is now torn by internal strife . N Dimethyl terephthalate plant and tereph-	Dec	22	19
thalic acid unit at Tarragona R Dow Unquinesa plans phenol plant at Bilbao and PE units at Tarragona R	Dec	8	28
Drug industry asks government to keep	July	7	45
foreigners out	Aug Oct	20	30
foreigners out Isocyanates plant R U.S. chemical companies set the pace for all foreign investors R	Oct	20	30
Sports			
Artificial turf draws criticism from profes- sional athletes, Monsanto says demands			
will not affect sales of its AstroTurf Skiing: plastic "snow" lengthens ski sea-	Oct	13	24
son near Bergamo, Italy	Sept	1	11
Standardization Flammability standards for children's			
sleepwear will require labeling that warns users about deleterious effects of			
non-phosphate detergents on flame re- tardancy N July 28-21 N	Aug	4	28
Lead in paint: FDA to restrict lead con- tent in paint used on surfaces that			
might be exposed to children N Lead faces new bans	Nov	17	14 22
FDA proposes cut in lead content of	Dec	15	41
Occupational Safety & Health Act: MCA workshop shows industry will have an	Dec	15	41
abundance of new monitoring and record keeping requirements to meet			
standards	Sept	29	49
Environment; Water Pollution Tire standards costly industry com-			
plains	July Oct	7 20	14 29
U.K. metrics advance	Oct	20	29
Foliage and soil are new "instruments"	0-1	200	
for measuring pollution	Oct	20	61
the air	July	14	20
starches Statistical Aids – Cybermatics' new method	Nov	17	53
of forecasting chemical demand N Steam Reforming – American Lurgi process,	Sept	29	37
tradenamed Gasynthan, for the catalytic steam reforming of naphthas and lighter			
materials to produce 950-1,000-Btu. pipe- line gas	July	7	27
Steel			
Depressed market causes cutback in steel- mill coke operations	Sept	8	14
Industry anticipates good pickup despite	Sept	29	23
Metals producers hope for '72 upturn,	Dec	8	
invest for long-term growth (chart) Shipments and production slip, steel-			15
makers look to '72 for improvement Sprayed fireproofing coatings in pursuit of	Sept	22	21
market held by asbestos fiber; new coating from TSI Inc., Thermo-Lag	Aug	11	19
Strike Steel strike won't hurt unless	July	14	12
Steel wage pact could help union organ- izing of chemical workers	July	14	13
Steel settlement near?	July	28	14
Viewpoint	Aug	11	12
Stein, Herbert - Newly named chairman of the Council of Economic Advisers	Dec	8	16
Stockpiles	Dec	0	.0
Canada: Alberta's sulfur stockpiling pro-	Nov	24	23
gram is dead	Dec	1	18
Japan planning stockpiling of vital re- sources	July	21	35
Storms	Jany	2.	00
Doria deluges Jersey plants Sept 8-15 Hurricane Fern damage slight	Sept	15 22	19 24
Styrene Butadiene	Jept	22	24
Polymer Corp. asks for a finding that imports of SBR by Goodyear of Canada			
be considered dumping of the material	Sant	1	33
by its Japanese producer N Shell dropping SBR	Sept	17	23
Shell will boost styrene-butadiene capac- ity at Pernis, Holland complex R Sulfonation — Stepan Chemical and Allied	July	28	15
have settled patent litigation involving a	A	10	00
method for sulfation and sulfonation , N	Aug	18	88

Sulfur			
Canada: Alberta's government will issue guidelines for sulfur producers N	Aug	4	28
Canada: Alberta's stockpiling program is dead	Nov	24	23
Canadian meeting of producing and con- suming nations: a final version of a global sulfur sales prorationing			
plan	Oct	20	55
plans could hurt U.S. firms	Dec	1	18
add sulfur recovery equipment R International sulfur markets; Canada, France Mexico and Poland agree to	Aug	25	16
ration sulfur sales N Inventories N Aug 25-37 N Markets are still sluggish N Mexican government to prorate output	Sept Sept Sept	14 22 22	25 59 59
by Mexican Frasch producers N Northwest Air Pollution Authority sets tonnage limit on sulfur compound emissions in industrial area near	Aug	18	73
Anacortes, Wash	Dec	1	18
Pilot plant to get elemental sulfur from	Sept	22	73
sulfur dioxide in smelter gas N Prices N Sales restrictions will push prices	Sept Oct	29 20	51 55
up Stocks are still creeping up N Stretford process, which can also remove 99,9% of sulfur from gas, sublicensed by Pritchard to Black, Sivalls	Sept	15 27	25 29
& Bryson	Sept	22	74
Pierre, Trinidad	Sept Aug	8	16 28
Sulfur Dioxide Carbon particles and sulfur dioxide may			
lower man's ability to fight infection says Penn. State's Zarkower . N Delaware's air pollution regulations for sulfur dioxide emissions: Getty Oil and Stauffer Chemical ask for more time to comply with Sept. 1 73	Dec	8	43
time to comply with Sept. 1 '73 deadline	Oct	13	21
A sad tale of sulfur dioxide - View-			
Sulfur Dioxide see also Air Pollution	Dec	8	5
Sufferic Acid			
Asarco's plant at El Paso, Tex R EPA clean air standards . New sulfuric plants should have little trouble meeting air standards, but nitric plant designers face a tougher	Aug	18 25	29 14
task Final standards still two weeks away . N Producers fight EPA's proposed emis-	Sept	3	44 51
Sion standards	Dec	8	33
plant at Rumford, R.I	Sept Aug	1 4	10
Israeli plant	Oct	20	30
acid and nitric acid plants; UC's Pura- Siv-n system Sept 1-44, N Nov 17-65 .	Dec	8	42
Russian plants will be built by Polimex	Sept	15	24
point Stauffer's Houston sulfuric acid plant	Dec	8	5
emissions: company fined \$500 for contempt of court	Aug	11	10
Surfactants GAF ponders product shifts at Linden,			
N.J	Oct	20	22
nonionic surfactants	Aug Sept	18	35 5
Purex boosts nonionics	Aug	18	39
for phosphate in home laundry detergents	Dec	1	43
Sweden			
Consumer ombudsman rules that con- tents given in ounces, rather than grams, in an odd-shaped bottle might be misleading Europe's first plant for desulfurizing	Sept	15	45
Gothenburg	Oct	27	19
French and Swedish gas leaders team up KemaNord reports sales, profits, capital	Sept	15	23
spending	Sept	29	32
as drink preservative N "Self-destruct" plastic: new approach to	Sept	1	43
plastic packaging	Sept	22	74
Sweeteners Bill would reimburse cyclamate manu-			
facturers for losses incurred under cyclamate ban	Oct	6	13

Citrus-peel extract, neophesperidin di- hydrochalcone (NHD), promises a			
	July	21	21
tractiveN	Nov	10	27
Synthesis Camptothecin, potential anticancer com-			
Zoecon synthesizes two new juvenile	Aug	18	87
	Dec	8	43
Synthetic Organic Chemical Manufacturers Ass At 50: not too old to take up the battle			
for new causes	Dec	1	25
tal curbs on chemicals	Oct	20	21
trade position in benzenoid chemicals. Meeting (annual dinner): Baker, Sen., says cleaning up the environment is a global issue, and it should be handled on a	Sept	15	18
world scale Syria - First phosphate plant inaugurated	Dec	8	20
at Khnaifis	Sept	29	32
T			
Taiwan see China, Nationalist			
Talcum Powder — FDA analysis finds as much as 25% asbestos content in samples of two leading brands of talcum powder	July	14	16
Tankers			
Akzo's tanker Stella Maris back in Rotterdam after plan to discharge chlorinated waste in North Sea draws			
fire	Aug	4	24
'Hudson Stream' plans to discharge 375,000 tons/year of industrial wastes off English shore have been delayed by			
outcries over pollution (map) Marad asks FPC to delve more deeply in-	July	7	24
to El Paso's intentions to build cryo-			
genic tankers in France to transport LNG to the U.S	Sept	29	22
Guard authority to establish and operate marine traffic regulation systems in con-			
gested U.S. port waters	Aug	18	73
Puerto Rican chemicals or may be- come museum	Oct	27	21
Tenneco deal would swap American-built ships and grain farm equipment for	OCI	21	21
Russian natural gas and oil N Texas Gulf Coast needs supertanker	Dec	8	14
facilities study shows	Aug	4	9
vapor-deposition technique to clad proc- ess hardware with tantalum N	Dec	1	43
Tapes – High-energy magnetic tapes sound off	July	7	36
Tariffs			
ASP: trade negotiations may include provisions for modifying or eliminating			
the ASP basis of valuation	Dec	15	23
to head U.S. trade negotiating team	Oct	6	13
Australian plastics tariff could hurt PE and PVC producers , N Benzenoid: SOCMA's Lang says Nixon's	Sept	1	13
new economic program will not lead to any long-term improvement in the de-			
teriorating U.S. trade position in ben-	Sept	15	18
zenoid chemicals Benzenoid imports shoot up (chart)	Sept	28	11 29
Japanese textiles see imports — Japanese textiles	July	20	29
Let's not lose momentum — Nixon pro- gram: good start, but business needs			
details for long pull - Viewpoint MCA's midyear meeting: the international	Aug	25	5
monetary and trade crises and the im- pact on chemical companies' foreign and			
domestic profits N NFTC survey reports U.S. overseas pro-	Nov	24	13
duction has not cut U.S. exports Nixon's "game plan" and Phase II see	Nov	24	17
Financial Presidential Commission on International Trade and Investment policy report doubtless will add to the monetary			
controversy N Presidential Commission on International	Aug	18	18
Trade and Investment study recom- mends repeal of ASP valuation system	Sept	22	24
Tariff Commission taking a hard line on adjustment assitance N TV imports: unions seek "escape clause"	Sept	22	17
relief under provisions of the Trade Expansion Act of '62 N	Oct	13	17
10% surcharge European Common Market calls for			
early removal of the U.S. 10% im- port surtax	Sept	1	13
GATT members entitled to take coun-			
ter-action against the 10% sur- charge		-	51

10% surcharge won't be temporary at all	Sept	29	17
4% in sales as a result of 10% sur-			
charge N 10% surcharge causing foreign competitors to step up production of their U.S. facilities; look for some	Sept	29	27
agreements with U.S. agents N Aceto Chemical reports 10-20% of	Oct	27	13
the products it handles are now un- profitable due to 10% surcharge N	Oct	27	13
10% surcharge can be hiked to 15% under new emergency authority Trade bill: Unions pushing the trade bill	Nov	17	24
introduced by Sen., Hartke	Nov Sept	17 15	25 24
Table Carrolle Gold Table 1 1 1 1 1 1 1 1	tob.		-
Texation			
Antipollution advocates urge taxes on sulfur and other plant emissions The Asset Depreciation Range (ADR) sys-	July	21	15
tem: suit filed against the Treasury Dept.'s new regulations N Congressional workload shapes up; legis- lators may propose a combination of	July	14	9
tax credits for business investments and	Aug	18	28
a cut in income taxes			•
age	Aug	4	6
(chart & table)	Aug Dec	4	7
European plant sites report (maps, charts, table)	Aug	25	23
Florida voters approve corporate income tax Germany: entertainment expenses of	Nov	10	18
chemical companies will no longer be tax-deductible if a government tax re- form bill is passed by the legislature. N	Nov	10	27
IRS says fines and penalties charged to a business will not be considered as a business expense and can't be deducted			
on corporate tax returns N Investment credit	Sept	8	9
Rep. Mills says needed investment-tax credit is not likely in '71	July	28	18
Investment credit can be a liability – Viewpoint House Committee overhauls Nixon's	Sept	29	5
tax credit proposals	Sept	29	21
ating machinery and equipment . N N.Y.C.'s 2d tax on plastic containers battle July 7-12, Sept 8-17, Sept 29- 24, R Oct 6-15	Dec	15	17
lax ruled unconstitutional, invalid and	Oct	20	21
void"	Nov	17	24
Nixon's tax plans reviewed Sept 8-17 . N Pennsylvania's "oppressive" corporate	Oct	6	9
to move N Aug 4-6 N Pennsylvania's top CPI firms threaten to	Aug	18	18
Plant sites '71 report — taxes and incen-	Sept	29	39
tives, J.M. Winton (table)	Oct	13	46
may apply for rapid write-off of pol- lution control equipment N	Nov Dec	24 22	14 16
Sulfur tax on way	Dec	22	10
come tax cuts for individuals N Tax break for business by Christmas?; tax checkoff to finance Presidential	Oct	13	17
elections opposed by White House . N	Dec	28	13 17
War tax case: Treasury Dept. is going to Supreme Court in an attempt to block U.S. Steel from getting back \$28 mil- lion in taxes the co, says it should not			
have paid 20 years ago	Dec	8	20
What's at stake for CPI companies in off- year elections	Oct	27	20
Talevision Closed-circuit TV helps researchers keep			
up with new technology	Nov	10	71
lief under provisions of the Trade Expansion Act of '62 N	Oct	13	17
Terephthalic Acid Foster Wheeler licensing rights to Tennessee Eastman's TPA and DMT			
technology obtained N Hercules plans plant at Wilmington,		17	65
N.C	Aug	11	6 28
	Nov	10	18
Testing Four chemical formulations can be pres- sure-impreganated into wood shingles			
to impart long-term fire retardance , .	Aug	4	22

Infrared scanning technique for detecting impending equipment failures by use of	Man	17	66	Transportation — Transportation new fron- tier for innovation — report, John Winton	Sept	29	53	Wholesale Price Index: chemical and allied products declined slightly last month	Cont	15	25
Israeli diagnostic test for cancer evalua-	Nov	17	66	(chart & table)	Зерт	23	55		Sept	15	20
Toys: pollution test kits	July Dec	28 22	40 34	Railroads, Shipping, Trucks Trichloroethylene — Hooker will phase out its TCE production at Niagara Falls, N.Y.,				U.S. Navy Naval Research Lab, scientists find mer-	Oct	6	48
Tetrafluoroethylene-ethylene copolymer from Montedison, TE	Aug	11	39	by January	Dec	8	19	Shipboard treatment process to be	Dec	15	20
Textiles FMC's American Viscose will build plant				& Davis to build sulfur recovery plant at Pointe-a-Pierre	Sept	8	16	University of California — Starts a 4-month investigation of water in the San Joaquin Valley; will study the effect of pesti-	Dec	10	20
to texturize polyester filament yarns for warp knit and texturized fabrics at Radford, Va	Oct	27	21	Trucks Titanium tank truck N	Nov	17	51	cides	Aug	18	88
Fiber producers seek price increase under Phase II guidelines (chart)	Dec	8	17	Transportation new frontier for innova- tion — report. John Winton (chart &	1404		01	Study tests safety of phosphate and nonphosphate detergents	Nov	17	51
Hong Kong's new plan for limiting exports of man-made and woolen textiles				table)	Sept	29	53	University of Illinois – Biodegradable versions of DDT N	Aug	4	33
to the U.S. is "totally unacceptable" to Washington	Sept	22	17	Tungsten - NBS work could open commer-	Sept	22	5	University of Pennsylvania			
Washington N ICI plans acquisition of four texturizing companies N Aug 11-31 N	Sept	22	51		Nov	10	75		July	7	27
Imports Far East trade issue remains unre-				Tungsten Carbide – Sandvik Steel starts production	Aug	11	40	Enzymes detect and treat phenols in re- finery and chemical wastes	Sept	22	63
solved	July	7 22	10	Turkey - Acrylic fiber plant onstream . R	Oct	27	19	University of Texas — Plastic recycling study	July	28	26
New quotas on imports of man-made and woolen textiles from the four	Sopt	22	22	Turpentine Hercules' Brunswick, Ga. naval stores plant cleaning up pollution prob-				University of Utah — Foliage and soil are new "instruments" for measuring pol- lution	Oct	20	61
big Asian suppliers may be added to the Nixon game plan	Sept	29	17	lems	Aug	25	19	Uranium			
Trade bill see Tariffs — Trade bill U.S. Tariff Commission decisions on				Naval stores prices	July	7	34	AEC shares know-how on nuclear fuel enrichment	Dec	8	18
requests for adjustment assistance show no pattern as yet N Industry in the red: Commerce Dept. 10-	Nov	17	17	U				GE's nuclear fuel reprocessing plant will use new techniques (flowsheet)	Aug	18	91
month import-exports figures Japanese imports	Dec	22	14	Ultrasonics — Ozone and sonics team up in an unusual assault on bacteria and				Japanese firm to export fabricated nu- clear fuel; agreement with the Pakistani	A	10	07
Curbs on U.S. imports of man-made- fiber products stir protest in Japan,				organics in water	Sept	22	73	AEC	Aug	18	87
but are favored by most U.S. fiber and fabric makers (chart)	Oct	27	15	Underwater Mining Deep Sea Ventures plans commercial				previous fuels N	July	7	27
How much will textile pact hurt? Japan estimates it will lose about \$170	Nov	10	87	deep see mining venture in '73 N fran: joint exploration venture off the	Oct	20	69	Shortage of enriched uranium by '79 appears likely: Congressional Com-			
million worth of fiber exports as re-				shore of Iran	Aug Sept	11 15	10 17	mittee cites lag in AEC program Soc. des Mines de l'Air starts up uranium	July	21	12
sult of the proposed U.S. textile-fiber export control plan N Nixon Administration's threat to impose	Oct	20	31	UN Second Interregional Fertilizer Sym- posium — Mechanical design techniques				processing plant in Niger desert R U.S. gaseous diffusion technology is in	Aug	4	19
quotas unilaterally may result in	Oct	13	17	and corrosion inhibitors cut plant down- time (table)	Oct	13	77	the bidding for a multinational uranium enrichment plant	July	28	40
export curbs	Oct	6	14	U.S. Army — Study attacking toothpastes draws blast from producers	Aug	18	26	Urea			
ing the comfort of polyester fabrics	Oct	13	83	U.S. Bureau of Mines				Indian Farmers Fertiliser Cooperative con- tracts for plant at Kalol	July	21	29
Thailand				Bruceton, Pa. unit to make pipeline gas using Synthane process	July	21	49	Nederlandse Stickstoff Maatschappij in- creases capacity	Dec	22	21
Petrochemical project delayed N Teijin will postpone p-xylene and DMT		29	27	Pilot study of an incinerator residue re- cycling process finds there's money to				Output	July	14	33 29
projects N Thomas, Q. Pendleton – Goodrich con-	Aug	4	20	be made in "mining" garbage dumps . N	July	28	39				
siders him a 'real winner', who will move the company ahead	Sept	22	23	U.S. Dept. of Agriculture CARG files a petition to halt Agriculture					Dec	15	27
Can 'Gray Fox' put bounce into tire maker?	Dec	15	56	Dept. plans to issue royalty-free, ex- clusive licenses to Upjohn and Welch				Japanese-French joint venture urethane resins plant is slated for northern			
Tiles - Decal system, Roll-Mark, will boost consumption of decorated ceramic tile	Aug	25	51	Foods N DES: hearings to find out why USDA	Sept	22	31	France	July	14	40
Tires				failed to report findings of residues in some cattle and sheep tested N	Oct	20	27	linking system for rubber N Pontiac's bumpers: urethane blocks in-	July	28	40
Brazilian plant at Americana R EPDM can't roll without tires (charts)	July	7 24	45 27	Forest Products Lab. – four chemical formulations can be pressure-impreg-				side telescoping steel boxes are impact absorbers	Sept	15	41
Firestone's URW denounces decision to begin constructing a plant near				nated into wood shingles to impart long-term fire retardance	Aug	4	22	duction, shredding and spreading of			
Nashville, Tenn., to produce steel-cord radial truck tires	Sept	15	18	Venezuelan equine encephalomyelitis battle: chemical products, including vac-				urethane foam to soak up oil spills . N Stauffer sells its urethane foam opera-	Sept	8	40
FTC challenges Firestone's ads	Sept	8	12	cines and insecticides, are enlisted by government and state agencies	Sept	8	12	tions to United Foam	Aug	18	25
Firestone subsidiary on patent on tire treads made from oil-extended rubber				U.S. Dept. of Commerce				for furniture market Upjohn's urethane chemical intermediates	Dec	8	31
upheld by British court		7	39 14	Government charts point up R&D's role in trade	July	7	28	plant at Delfzijl, Netherlands R World's first all-urethane boat, dubbed	July	28	15
Titanium				"Technology forecast" will pinpoint ma-	Aug	4	4	the Pike, designed by Tedruth Plastics	Sept	22	61
Anode for chlorine cells: Olin to install the anode at Augusta, Ga N	Oct	27	37	jor developments in which foreign coun- tries are substantially ahead of U.S N	July	21	17	Utilities: SEC raps utilities for diversifying into manufacturing	July	28	28
Tanker: first titanium tanker ever built for general chemical trucking	Nov N	17	51	U.S. Dept. of Health, Education & Wel- fare - List of toxic substances for use				••			
Titanium Metals closes ingot plant at Henderson, Nev. temporarily	Sept	1	8	in the enforcement of the new Oc- cupational Safety and Health Act	Aug	18	27	V			
Titanium Dioxide				U.S. Dept. of the Interior				Vaccines see Drugs Varnishes - Superfinishes: thermosetting			
Coatings business improvement seen as key to solving cost and marketing		-		Aluminum producers and USDI officials explore what can be done about				coatings bid for furniture market	Dec	8	31
problems (chart & table)	Dec Nov	10	23 61	strengthening domestic aluminum pro- duction resources N	July	7	34	Carbon dioxide plant planned by			
Titanium Trichloride — Purechem's plant in the Bayport Industrial Park near				Bureau of Land Management hearings on off-shore oil and gas leases	Sept	15	17	Gascarb	Aug	4	19
Houston		8	16	Electrodialysis plant at Webster, S.D., will shut down	July	14	23	Polyethylene plant will use French		25	20
ries and cosmetics	Aug July	7	21 34	Grants leases to mine sodium salts in fed- eral oil shale lands in Colo N	July	14	10	technology	Oct	20	31
Toothpasts Army's study attacking toothpastes draws				Joint research program with natural gas industry to develop commercial coal gasification program	Aug	11	11	panies are finding that investing venture capital in small new firms is a good way to diversify and increase profits	July	28	25
blast from producers	Aug	18	26	Office of Coal Research – shortage of natural gas spurs coal gasification devel-	Aug	**	* * *	Vermiculite Grace W.R. plans mill at		4	12
fluoride in toothpaste stains teeth Toys - Toy makers are taking advantage of	July	21	13	opment	Oct	27	33	Libby, Mont	Dec	22	5
the growing interest in ecology, offer test kits, games, inexpensive monitoring de-				development of oil shale resources on federal lands in Colo., Wyo., and				Vinyl – Output N Vinyl Chloride – Goodrich Chemicals		14	33
vices	Dec	22	34	Utah	July	7	18	plans Venezuelan plant N Vinyl Chloride Monomers see Monomers	Aug	25	20
action to a new trademark, EXXON . It Trade Secrets — Conference Board reports	N Sept	29	17	U.S. Dapt. of Labor				Vinylon — Kururay to sell plant to North Korea	Sept	22	51
on why it's hard to keep a secret Training - Closed-circuit TV helps research	Dec 1-	15	36	Program to put unemployed engineers, scientists and technicians back to				vonBerg, William - Sybron's president: Accountant's three-part package adds			
ers keep up with new technology		10	71	work	Sept	22	17	up	Nov	17	82

w			
Warehousing			
Management research consultants team up in two new ventures to offer managed warehouses	Nov	3	49
Transportation new frontier for innova- tion — report, John Winton (chart & table)	Sept	29	53
Waste Disposal	oopt	2.0	00
Akzo's tanker Stella Maris back in Rotterdam after plan to discharge chlorinated waste in North Sea draws			
AEC scraps plans for atomic disposal dump near Lyons, Kansas; decision	Aug	4	24
could hold up licenses for new power plants	Oct	13	71
gradation of hydrocarbon wastes N Deep-sea disposal: researchers at Water Pollution Control Federation confer- ence give clean bill of health to Atlantic Ocean disposal of Philadelphia's	Aug	25	47
wastes Deep-well disposal: Justice Dept, asks in- junction against Armco Steel's drilling of deep wells to dispose of waste ma-	Oct	13	65
terials N	Aug	11	40
North Sea waste disposal (map) Hercules: Georgia turns down permanent	July	7	24
dump excess dirt from Brunswick, Ga., operations	July	28	18
Navy moves to adopt shipboard sewage	Dec	15	20
treatment process Ocean dumping bill may be passed before Congress recesses Aug. 6	Aug	4	15
suage EPA's concern about the aquatic environment of the sound Plastics disposal: Researchers try to de- velop degradable plastics for packag-	Oct	20	21
ing	Dec	8	45
wastes?	July	28	26
Williams Bros. Engineering has contract for solid-waste disposal plant for	Aug	11	32
Oklahoma's Indian Nations Council of Governments	Aug	18	29
Waste Treatment Centrifuges designed for dewatering chemical plant wastes can cut the costs			
of secondary treatment and incinera- tion Delaware River and Basin Commission okays construction of regional waste	Dec	15	37
collection and treatment system in Deepwater, N.J	Oct	13	29
ing detergent phosphates from sewage plant wastes	Oct	6	47
Enzymes detect and treat phenols in re- finery and chemical wastes	Sept	22	63
Houston Ship Channel industries are mov- ing toward regional waste treatment . N IP's Ticonderoga mill doesn't smell: pol-	Sept	1	43
lution control to prevent the charac- teristic Kraft-mill odor and treat plant effluent	Dec	1	41
Ozone adds punch to oxidation of waste waters Ozone and sonics team up in an unusual assault on bacteria and organics in	Nov	3	53
water N Phosphate removal at waste treatment plants – Water Pollution Control Fed-	Sept	22	73
eration conference	Oct	13	65
acceptable waste-water treatment and disposal units	Nov	3	19
chemical waste treatment system N July 28-39	Aug	4	23
Toxophene waste control key to Hercules' naval stores cleanup	Aug	25	19
solve waste problems	Aug	11	32
Wasta Utilization Aluminum Assn,'s waste recycling plant	New	2	19
Concept praised	Nov	3	10
Process for complete recycle of pickle	Dec	8	42
fiquor Scovill Mfg.'s process for saving plating wastes Sewage plant, that looks like a home, will	Sept	15	29
convert development's wastes into an ash and water of potable standard N	Aug	4	23
July 28-39	Aug	4	23

USBM pilot study of an incinerator residue recycling process finds there's			
money to be made in "mining" gar-	July	28	39
Akzo's tanker Stella Maris back in Rotterdam after plan to discharge			
chlorinated waste in North Sea draws fire	Aug	4	24
on asbestos	Dec	8	43
AEC hearings on standards for radiation emission and for emergency core-cool- ing systems in nuclear power plants to			
be held in January N Bohn Aluminum & Brass pleads no con-	Dec	8	14
test to nitric acid spill charges R Congress' stringent control bill that would	Aug	18	29
retain "zero discharge" goal draws in- dustry fire	Dec	22	15
Dow's Midland, Mich. plant's accidental spill results in \$500 fine	Aug	11	34
1899 Refuse Act Anaconda Wire & Cable charged with dumping waste from its Hastings-on-			
Hudson, N.Y. plant into Hudson			
River	Sept	15	18
Pleads guilty	Nov	24	19
Armco Steel's discharges of phenol effluent into Houston Ship Channel:			
a new court order relaxes ban N Houston mill gets strict pollution	Sept	29	51
Ashland Oil given 80 days to stop pol-	Nov	17	24
luting the interstate waters of the Big Sandy River	July	7	15
permits only in cases of major sources of pollution	Aug	4	15
Government asks that Rohm & Haas be enjoined from allegedly discharging toxic waste into the Houston Ship			
Channel N Waste discharge permit applications: only 3,000 of the expected 40,000	July	28	9
received N EPA recommends legal action be taken	July	7	27
against 35 companies that have not applied for permits N European nations consider curbs on	Sept	29	17
North Sea waste disposal (map)	July	7	24
Escambia Bay discharges	Nov	10	18
trol standards draw fire Houston Ship Channel operators must	Dec	15	22
meet new discharge allowances by Dec. 31, 74 N Kellogg offering stripping unit to clean up	Nov	10	75
steam condensate in ammonia plants . N Maine environmentalists defeat proposed desulfurization project of Maine Clean	July	21	49
Fuels, inc. MCA's Byrd says states should have pri-	Aug	4	12
control and the federal government			
should take a backup position Mercury Borohydride system for mercury re-	Sept	22	23
moval N Congressman wants mercury users to	Dec	8	43
share abatement secrets: Georgia— Pacific offers information	July	14	16
at getting mercury out of a chlorine- caustic plant's waste sludge , , , , , N Naval Research Lab scientists say mer-	July	14	10
curv is toxic to algae N	Oct	6	48
Muskie's tough water bill due	Oct Nov	27 10	21 75
water pollution bill Ocean dumping bill may be passed before	Nov	24	15
Congress recesses Aug. 6 N Ohio River: state and federal officials	Aug	4	15
blame each other for inadequate enforce- ment of pollution abatement sched- ules	Oct	13	23
Cabot's Silanox 101 may help in clean-	Cont	8	39
ing up oil spills Shell Pipe Line will evaluate on-site production, shredding and spreading	Sept	0	38
of urethane foam to soak up oil spills	Sept	8	40
clean up oil spills	Aug	18	24
switch to a land-disposal system to as- suage EPA's concern about the aquatic	0	00	
environment of the sound Potassium azide may become an impor- tant agricultural chemical and also	Oct	20	21
reduce nitrate pollution of ground water and streams	Oct	20	69
acceptable waste-water treatment and disposal units		3	19
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TGS study says mining at Lee Creek phosphate complex won't affect fresh-water supply phosphate complex won't affect fresh-water supply water phosphate complex on't affect fresh-water supply water phosphate complex on't all the provided and the political of a period of the political o				
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steam condensate in ammonia plants. N. July 21 49 Oil spills see Water Pollution Ozone adds punch to oxidation of waste waters. Ozone adds punch to oxidation of waste waters. Ozone and sonics team up in an unusual assault on becteria and organics in water seems of the programment of the programmen		Dec	1	41
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water . N Sept 22 73 Sewage plant, that looks like a home, will convert development's wastes into an ash and water of potable standard N July 28-39	Ozone and sonics team up in an unusual	Nov	3	53
N July 28-39. Aug 4 23 Wetting agents - Dow Corning introduces wetting agents based on silicone-glycol copolymers	water	Sept	22	73
copolymers Whatmore, William — Carborundum Corp.; a executive v-p and chief operating officer: This Englishman colletes china, courts Japan — Patent Ilterature provides new clues on commercial routes was and hairpices fall under the jurisdiction of the Federal Flammable Fabrics Act Sept 22 23 Willers. Thomas — Resigns as vice-chairman of Occidental Petroleum and chief executive officer of Hooker Chemical	N July 28-39		4	23
Japan Dec 8 56 Wigs – Commerce Dept. rules wigs and hairpicees fall under the jurisdiction of the Federal Flammable Fabrics Act . Sept 22 23 Willers, Thomas – Resigns as vice-chairman of Occidental Petroleum and chief executive officer of Hooker Chemical . Sept 1 8 Windows – PTG Gevelops doubled-glazed window that "warms itself, muffles unwanted sound, insulates against cold and heat, screens out solar glare" . R Sept 29 24 Women – No lack of marital status – letter . Sept 14 5 Women – No lack of marital status – letter . Sept 29 24 Wood Four chemical formulations can be pressure-impregnated into wood shingles to impart long-term fire retardance . Aug 4 22 Irradiation turns acrylic-oak combination into durable flooring . July 14 37 Monsanto Canada sells wood achesives, operations to Westport Chemical and wood stains business to LePage's . Dec 1 21 Wood – Use declines: Textile Economics Bureau report . N Oct 13 57 Xylene – Patent literature provides new cluss on commercial routes for separating para xylenus by molecular-sieve adarption . Aug 11 37 Xylene see also Para-Xylana Yugoslavia . Aug 4 1 New investment rules aim at U.S. backing for CPI buildup (map) . Nov 17 3	copolymers	Dec	15	39
Wilder, Thomas — Resigns as vice-chairman of Occidental Petroleum and Chief executive officer of Hooker Chemical Sept 1 8 Windows — PG Gevelops doubled-glazed window that "warms itself, muffles unwanted sound, insulates against cold and heat, screens out solar glare" R Sept 29 24 Women — No lack of marital status — letter July 14 5 Wood — Rough of the Sept 29 24 Women — No lack of marital status — letter July 14 5 Wood — Sept 29 24 Women — No lack of marital status — letter July 14 5 Wood — Indicate the Sept 29 24 Women — No lack of marital status — letter July 14 5 Wood — Indicate the Sept 29 24 Women — No lack of marital status — letter July 14 5 Wood — Indicate the Sept 29 24 Wood — Indicate the Sept 29 29 29 24 Wood — Indicate the Sept 29 29 24 Wood — Indicate the Sept 29 29 29 24 Wood — Indicate the Sept 29 29 29 24 Wood — Indicate the Sept 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Japan	Dec	8	56
tive officer of Hooker Chemical Sept 1 8 Windows – PG Gevelops doubled-glazed window that "warms itself, muffles un-wanted sound, insulates against cold and heat, screens out solar glare" . R Sept 29 24 Women – No lack of marital status – letter . July 14 5 Wood Four chemical formulations can be pressure-impregnated into wood shingles to impart long-ferm fire retardence . Aug 4 22 impart long-ferm fire retardence . Aug 5 4 Wood - Use declines Textle Economics . Aug 5 4 Wood - Use declines Textle Economics Bureau report . N Oct 13 57 Wood - Use declines Textle Economics Bureau report . N Oct 13 57 Wood - Use declines Textle Economics Bureau report . Aug 11 37 Xylene see also Para-Xylenae . Aug 11 37 Xylene see also Para-Xylenae . Aug 4 1 New investment rules aim at U.S. backing for CPI buildup (map) . Nov 17 3	Willers. Thomas - Resigns as vice-chairman	Sept	22	23
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Four chemical formulations can be pressure-imprepanted into wood shingles to impart long-term fire retardance	letter		14	5
Irradiation turns acrylic-oak combination into durable flooring. July 14 37 Monsanto Canada sells wood adhesives, operations to Westport Chemical and wood stains business to LePage's Ltd	Four chemical formulations can be pres- sure-impregnated into wood shingles to			
into durable flooring July 14 37 Monsanto Canada sells wood adhesives operations to Westport Chemical and wood stains business to LePage's Ltd R Dec 1 25 Wood from plastic from Japan? Aug 25 44 Wool – Use declines: Textile Economics Buresu report N Oct 13 57 Xylene – Patent literature provides new clues on commercial routes for separating para-xylenes by molecular-sieve adsorption Aug 11 37 Xylene see also Para-Xylene Aug 11 37 Yugoslavia Armanics fractionation plant contract to Snam Progetti R Aug 4 1 New investment rules aim at U.S. backing for CPI buildup (map) Nov 17 3		Aug	4	22
Ltd	into durable flooring	July	14	37
Xylene - Patent literature provides new clues on commercial routes for separating pare xylenes by molecular-sieve adsorption. Aug. 11. 37. Xylene see also Pare-Xylene. Aug. 11. 37. Yugoslavia. Aromatics fractionation plant contract to Snam Progetti	Ltd	Dec		
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Yugosteria Aromatics fractionation plant contract to Snam Progetti	para-xylenes by molecular-sieve adsorp-	Aug	11	27
Aromatics fractionation plant contract to Snam Progetti R Aug 4 1: New investment rules aim at U.S. backing for CPI buildup (map) Nov 17 3	Xylene see also Para-Xylane	Aug	11	31
Aromatics fractionation plant contract to Snam Progetti R Aug 4 1: New investment rules aim at U.S. backing for CPI buildup (map) Nov 17 3	Yugoslavia			
New investment rules aim at U.S. back- ing for CPI buildup (map) Nov 17 3	Aromatics fractionation plant contract	R Aug	4	1
PVC buildup N luly 29 2	New investment rules aim at U.S. back-			
1 vo bolloup 20 2	PVC buildup			

Z olite – Patent literature provides new				Tanker Stella Maris back in Rotterdam after plan to discharge chlorinated waste in North Sea draws fire	Aug	4	24	Sunstate Builders see under name	Dec	15	21
clues on commercial routes for separating para-xylenes by molecular-sieve adsorp-		11	27	Technology and equipment for Slovakia	Aug	4	19	Tetracycline judgment: U.S. Supreme Court refuses to hear appeal challeng-	Nov	3	45
c - Bolivia has marketing trouble; deal	Aug	11	37 35	Systems to develop liquefaction and transportation of natural gas R	Aug	18	29		Oct	20	17
: Oxide — GE-MOV metal oxide var- ors — new family of semiconduc-	July	21	35	Albert Pharma – acquires the end- processing and packaging units of Medi-				Tucson plant to produce reagents for	Nov	10	6
sN	Dec	22	31	pharm	Dec	8	28	the mining industry R American Enka – rayon prices N	July	15	2
nors				steel	Aug	11	19	Rayon tire-cord yarn prices N American Hoechst – Dyes & Pigments	Aug	18	7
ks, Kenneth intenance management sharpens its				at Whitehaven Works R	Sept	1	16 21	Div. facility at Chattanooga, Tenn., dedicated	July	7	,
cills to meet profitability challenge e, Donald P.	Dec	1	45	Selling its animal feed subsidiary, Wm.	July	15	40	American Lurgi – process, tradenamed Gasynthan, for the catalytic steam re-			
e man in the middle is doing fine	July	28	32	Alcan Aluminium – aluminum sale to				forming of naphthas and lighter materials to produce 950-1,000-Btu. pipe-			
nsportation new frontier for innova-	Sept	29	53	Alcolac - Sales and earnings in '71	July Sept	28	29 9	line gas	July	7	
nt sites '71	Oct	13	35	Algonquin Gas Transmission — asks FPC for approval to build a naphtha-				business a boom for starches	Nov	17	
emicals in coatings	Oct	20	35	cracking plant to produce synthetic gas at Freetown, Mass.	Sept	1	9	American Metal Climax – African nickel- copper development; stock transactions	A		
				Algonquin SNG — pipeline-gas-from- natural-liquids plant N Oct 20-69 N	Oct	27	37	must be ironed out first	Aug	4	
				Aliaf Co. – nylon yarn output to be doubled	Aug	4	19	Wrangles with Puerto Rico over copper	Nov	24	
Company In	Ide	X		Allied Chemical Corp. – air bag re- straint system controversy	July	28	16	mining terms	Oct	27	
				COALTEK closed-pipeline charging system will be installed at Semet-	,	-		acrylic-oak combination into durable flooring	July	14	
A					Nov Sept	10	20 22	American Petrofina – Justice Dept. rules AP cannot buy former Sinclair Oil			
Corp AGA Thermovision				De-icers devised for runways	Nov	24	29	properties in 14 Western states from Atlantic Richfield	Dec	1	
ipment	Nov	17	66	Ethylene hardship award from OIAB N Houston Oil & Minerals purchases oil	Nov	10	13	American Smelting & Refining Co. – major expansion projects	Dec	8	
Gas - L'Air Liquide acquires 50% erest; Deutsche L'Air Liquide Edelgas			00	and gas properties	Aug	22	17 27	Pilot plant to get elemental sulfur from		29	
-Goodrich - Geel, Belgium, polymer	Sept	15	23	Oil and gas business (table) Patent litigation with Stepan Chemical	July	7	12	sulfur dioxide in smelter gas N Sulfuric acid plant at El Paso, Tex R	Sept	18	
nt planned	July	7	15	involving a method for sulfation and sulfonation settled N	Aug	18	88	Wage-price freeze clouds settlement of remaining copper strikes	Sept	1	
using development will be processed to nking water quality in new packaged				Railroads strike affect	July	14	17	American Standard – Eberle: Nixon choice to head U.S. trade negotiating team	Oct	6	
ysical-chemical waste treatment tem	July	28	39	Charlotte, N.C	Aug	18	29	Ametek – borohydride system for mer- cury removal	Dec	8	
vage plant, that looks like a home, will onvert development's wastes into an				Wyo. N July 7-33 N	Oct Dec	20 8	22 29	Mobile air pollution control laboratory at Chemshow	Dec	8	
sh and water of potable standard	Aug	4	23	Sodium seguicarbonate prices N		21	41	Amicon Corp synthetic skin: "poly-ion	Dec	0	
ybutadiene golf ballravenous solutions back in production	July	21	45	Sulfur emission limits set in Anacortes, Wash	Dec	1	18	complex" based on polystyrene that resembles living animal tissue N	Aug	4	
t North Chicago plant	Aug	4	12	Altona Petrochemical Co. — ethane pipe- line across Port Phillip Bay, Australia,		~	40	Ammonia Co. of Queensland — Australia's fertilizers industry faces continued			
ers, make them winners	July	14	39	delayed	July	7	40	profit drought	July	14	
% surcharge: 10-20% of the products thandles are now unprofitable due to	0 :	07	**	bankers set up organization to stabilize the aluminum market N Aug 11-18	Nov	17	45	at Fort Nelson, B.C	Sept	29	
0% surcharge says company Noline Co. – plastic paper joint venture	Oct	27	13	Aluminum Co. of America — coal strike causes closing two of five potlines at				still on the active list N PP prices N	Nov	17 18	
med by UC and Mead Paper N rsh Chemicals & Fertilizers – maleic	Nov	17	17	Warrick, Ind N Cutbacks in aluminum production at	Nov	10	13	Amoco Production - Midwest Oil may be acquired by Standard Oil (Indiana)			
hydride plant	Oct	20	30	Rockdale, Tex., Badin, N.C., and Massena, N.Y N	July	14	33	and merged with Amoco R Midwest Oil directors turn thumbs	Aug	4	
rtilizers sells its fertilizer interests R Iphi Paint & Color Works - N.Y. cites	Nov	24	21	Fort Mead, Fla. unit completed and ready to convert phosphate industry				down on merger Midwest Oil stockholders suing	Aug	25	
int for lead content	Dec	15	41	Jungle lab is on its way to analyze	Oct	20	23	Standard for using "misleading scheme" to take control of Mid-			
der name lid- and liquid-fueled rocket facilities				mineral deposits in Brazil N Phase II: Queuing for price hikes	Aug	18	88 17	west	Oct	6	
nay be converted to chemical production	Sept	15	35	Pres. George blames governmental actions for abetting world aluminum over-				Standard plans to offer stock ex- change	Dec	22	
n Chemical Manufacturers — Israel's sticides industry banks heavily on				supply	Sept	22	21 19	Anaconda Co. – copper outlook dull Corporate realignment: chairman's	Dec	1	
ow-how and export saless-Gevaert — Belgium producers plan to	July	14	43	Alza Corp device to continuously		24	33	resignation triggers top-level re- shuffling	Oct	13	
it USSR in effort to expand trade and chnical cooperation N	Nov	24	43	Place, V., says some foods eaten while	1404	24	55	Dividend payments will be skipped N Tooele, Utah, lead smelter closes be-	l Sept	1	
P - petrochemical research efforts to pooled with ELF-Erap and Petrofina R		15	33	taking certain medications can be harmful or even fatal N	Sept	15	35	cause of weakening markets	Nov	17	
Preheater Co. — incineration systems Chemshow	Dec		41	Amchem – Cyanamid and Amchem agree to stop selling the herbicide				Wage-price freeze clouds settlement of remaining copper strikes	Sept	1	
Products & Chemicals - Catalysts joint		8	19	amitrole		7	15	Anaconda Copper Mines — Chile's national- ization of U.S. copper operations: how		0.0	
nture		22	53	on – letter	Sept	8	5	much will Chile pay?	July	21	
nemicals group headquarters moves to Valley Forge, Pa	Sept	8	16	price hikes American Cyanamid — Amchem and AC	Dec	1	17	pany for nationalization: Washington takes a dim view	V Oct	20	
eming, Richard group v-p for chemicals: After two days on the job, he seemed				amitrole	July	7	15	Montana copper workers end strike f	July	28	
like an old hand	Sept	22	90	Bound Brook, N.J. plant cleanup cam- paign is under way following tropical				Anaconda Wire & Cable — Hastings-on- Hudson, N.Y., plant charged in viola-			
Escambia Bay discharges	Nov	10	18	storm Doria Sept 8-15	Sept	15	19	tion of the 1899 Refuse Act by dumping waste into the Hudson			
as Council's natural gas liquefaction ant at Canvey Island, Essex R	Dec	8	28	Arden; case to court	Sept	29	23	River	R Sept Oct	15	
yogenic nitrogen plant at Puldja, Indonesia		15	24	Escambia Bay discharges	Nov	10	18	Fined	Nov		
ream plant at air-separation complex in Holland		4	19	increases under Phase II guidelines	Dee	0	17	African nickel-copper development;			
Reduction Co., Inc. – ozone may be ss expensive than activated carbon for	· nug	4	.0	(chart)	Dec	8	17	stock transactions must be ironed out first	Aug	4	ı
rtiary treatment of wastes	Nov	3	53	synthetic tetracycline, introduced N Lederle Labs.' Pearl River, N.Y., com-	Oct	13	71	Anheuser-Busch — Industrial Products Div. — snack-food business a boom for			
alaries cut, cites depressed business conditions	Sept	22	21	plex reaches agreement on a new con- tract	Nov	3	21	ANIC — Italproteine formed	Nov N, Sept		
x International Corp. — world's largest werse osmosis water treatment plant				Licensing agreement for acrylic fibers with Sumitomo Chemical R	Aug	4	19	Methyl methacrylate butadiene- styrene plant at Ravenna will double			
ill be built at Santa Barbara, Calif N arlund & Rausing, AB — additive that	July	14	23	Malathion, DDT substitute	Aug	4 7	36 34	capacity next year; a third plant is planned for '73	R Sep	t 22	2
ccelerates ultraviolet disintegration of E, PP and polystyrene N Sept 22-74	Dec	8	49	Photopolymers: "unique aromatic azide" that is sensitive to ultraviolet		,		Nippon Kakoh studying European synthetic paper market prospects	R Nov	, 3	
zo - formaldehyde resins unit for	July	21	33	light	Oct	27	39	Ansul Chemical — making it in Malaysia	Sep		2
Delfzijl planned with DSM F Sales and earnings, '71 first half N	Sept		13					first plant in the U.S. for making			

Aquitaine-Organico - activities will be				Ethylene oxide capacity at Antwerp				Borden Chemical - Baton Rouge Trade			
absorbed by new subsidiary Ato-				expanded	July	21	39	Council of the AFL-CIO drops the			
Plastique	Dec	15	33	Glycol capacity increased	Aug Sept	15	19 24	"unfair labor practice" charges it filed last month against Stauffer and Borden	July	14	17
acrylic-oak combination into durable flooring	July	14	37	Sales and earnings N Aug 25-20, Oct 27-51	Nov	3	43	Chemical Div. products' price increase requested	Dec	22	27
Arenol Chemical – amphetamine pro-	July	14	3/	Up goes mark, down go German profits				Elastaturf synthetic turf: tussle over			
duction quotas set by the Justice Dept N	Dec	8	14	report (charts)	Sept Dec	22 8	33 25	Minning, Max, resigns as president of	Oct	13	24
Argonne National Laboratory - magnetic		-		World plastics markets N BASF Corp. – sales and earnings – first	Sept	29	37	Witco, will join Borden Inc. as a cor- porate v-p and head of its chemical			
Arizona Agrochemical Corp. — Chemical	July	7	37	nine months of '71	Nov	17	24	div	Sept	8	9
Distributors purchases fertilizer and agricultural chemicals business R	Oct	6	15	BASF Espanola – oxo-alcohol plant at Tarragona, Spain	July	7	45	Proteins add muscle to toiletries and cosmetics	Aug	4	21
Arkansas Louisiana Gas – gas rates may				BASF-Shell — Rheinische Olefinwerke see under name	,			Venture-capital activities	July		25
Armak Co. – amines plant at Morris, III.,	Aug	18	24	BASF Wyandotte - caustic soda prices				Borg Services – acquired by Atlas McAlpine	Nov	10	87
planned N Armco Steel – Justice Dept. asks in-	Dec	8	29	going up	Dec	8	17 18	from W.R. Grace	14174	10	01
junction against drilling of deep wells to				OCAW dispute over who has access to	Duc		10	Gottschalk are candidates for U.S. Patent Commissioner N	Sept	15	13
dispose of waste materials N Phenol effluent discharges into the	Aug	11	40	the company's monitoring records under the new job safety law	Oct	6	12	Banner nominated N Nov 17-65	Nov		18
Houston Ship Channel: a new court	0	~~		Phthalic anhydride plant at South	Oot	13	29	Farmer, Thomas new president of chemical & plastics group: At home in			
order relaxes the ban N Houston mill gets strict pollution	Sept	29	51	Kearny, N.J. onstream	OCI	13		lab, in boardroom – and abroad Five-year plan includes a target for a	Dec	1	56
timetable Armour-Dial – quits SDA N	Nov	17	61	pollution suit	Aug	4	10	77% increase in sales of chemicals and			
Asahi Chemical — acrylic fiber joint				prices	Sept	29	37	plastics, says Chairman Ingersoll R Justice Dept. suit charges conspiracy	Nov	10	20
venture in Mexico	Oct	27	19	Baker Oil Tools – acquires Milchem R Ballarpur Paper & Straw Board Mills –	July	14	16	involving DWV plastic pipe fittings N	July	21	17
hyrous hydrofluoric acid plant to Buss	hulve	28	15	chlor-alkali plant at Karwar, India R Banco da Bahia-Investimentos – capro-	Sept	15	24	Marbon Div. — ABS expansion at Washington, W. Va., plant (table)	Oct	20	23
Ashland Chemical — agreement with				lactam unit in Brazil proposed	Dec	8	26	Marbon Div ABS markets (chart)	Aug	15	39
OCAW includes wage hike	Aug	25	16	Baltimore Aircoil — aquisition of Pacific Pumping Co N	July	7	9	Marbon Div. boosting ABS resin capacity			
business sense, 'down home' air	Sept	8	48	Barnangwato Concessions — African nickel-copper development; stock trans-				at Washington, W. Va., plant N	July	28	9
Ashland Oil & Refining – acquisition of Foster Grant called off	Oct	6	15	actions must be ironed out first	Aug	4	11	Marbon N.V. see under name Boston Gas Corp. — commercial SNG			
Ashland Chemical see under name Buys oil and gas interests from UC R		13	29	Bard, C.R. — International Paper stock offering will be exchangeable for shares				plant will be in operation in the U.S. late '72	Oct	27	37
EPA gives company 80 days to stop	OCI	10	23	of Bard	Oct	20	23	SNG plant will use Japan Gasoline's			
polluting the interstate waters of the Big Sandy River	July	7	15	Baxter Laboratories – dividend boosted , R Stock offering	Dec Oct	22 27	17 21	process N Botswana RST Ltd. – African nickel-	Dec	8	25
Asplundh Aviation, Inc infrared				Bay State – acquired by Commonwealth Oil Refining	Διια	11	10	copper development; stock transactions	A		11
scanning technique	Nov	17	66	Baychem Corp Pflueger, Edward will	Aug	4.1	10	must be ironed out first Brewers Warehousing — PE for molding	Aug	4	11
Atanor - hydrogen peroxide plant at Rio Tercero onstream	Sent	15	24	head Baychem, holding company for Bayer's U.S. units	Dec	8	18	beer cases	Dec	1	29
Atlantic Richfield - Justice Dept. rules	oopt	13	24	Bayer AG - dividend cut this year; nine-				Bristol Myers — Drackett Div. — Cooking Magic vying for a share of the cooking			
American Petrofina cannot buy former Sinclair Oil properties in 14 Western				month sales and earnings N Bayer Hispania Industrial – isocyanates	Dec	15	35	market	Oct	27	29
states from AR	Dec	1	18	plant	Oct	20	30	Tetracycline judgment: U.S. Supreme	July	7	14
under name			-	Baytex, Inc. — Bayer merging six wholly owned subsidiaries	Dec	8	18	Court refuses to hear appeal challeng- ing the way money from court judg-			
Nuclear reprocessing plans in South	Sent	15	18	Bechtel Inc. — Wasp predicts a bright future for slurry pipelines	Sept	22	69	ment will be distributed N	Oct	20	17
Carolina cancelled	COPT			Beckman Instruments - water-measuring	Sopre	4.6	00	Britain's Gas Council — contract to Air Products for natural gas liquefaction			
of restructuring our downstream oper- ations and eliminating unprofitable				instruments "designed to bring environ- mental technology to the classroom at				plant at Canvey Island R	Dec	8	28
assets"	Nov	24	19	a modest price"	Dec	22	35	Substitute natural gas technology cross- licensing arrangement with Kellogg N	Aug	18	88
R Sept 29-24	Dec	22	17	Beecham Group – offers to buy Glaxo Group Ltd	Dec	15	33	British Aluminum – Chemicals Div's New- port plant will be phased out N	Aug	11	31
Atlas Chemical Industries — ICI merger agreement is final	July	28	18	Glaxo's Wilson asks U.K. government to examine takeover bid R	Dec	22	21	British Industrial Plastics - formaldehyde			
Tamagua, Pa., striking employees ready				Beker Chemical – acquisition of stock	Dec	22	21	plant at Oldbury, near Liverpool R British Oxygen Co. – acquires Cyanamid's	July	28	15
to negotiate	Aug	4	12	Interest in Hooker Farm Chemicals of Taft, Inc.	Nov	24	17	melamine plant at Gosport, Hamp-	July	28	10
sight	Aug	25	15	Occidental Petroleum asks FTC approval to spin its DAP business to Beker		24	17	British Petroleum - Englehard has world-			
negotiations contunue N Sept 1-5	Sept	8	15	Bell Laboratories - Raman laser device	Nov			wide rights to isomerization process N — letter	Aug	11 15	40
Workers laid off Oct 20-22 R Atlas McAlpine Ltd. – acquires Borg	Dec	8	19	for detecting nitrogen oxides	July	14	20	Libya's nationalization of oil properties will have little effect on Europe's			
Services from W.R. Grace R Ato-Batiment – Cie. Francaise des	Nov	10	87	have majority interest (table)	July	14	14	petroleum supplies N		15	35
Petroles-ELF-Erap subsidiary formed . R	Dec	15	33	Bethlehem Corp. — Porcupine Processor — a new way to dry sewage N	Aug	11	40	Metaldehyde tries to slow snail's pace Rotterdam refinery increases capacity . R	Nov	7	41
Ato-Chimie — Cie. Francaise des Petroles- ELF-Erap subsidiary formed R	Dec	15	33	Bethlehem Steel – steel strike's toll Bibby, J. & Sons – Albright & Wilson	Aug	11	12	Stock offering to help finance group			
Ato-Emballage — Cie. Francaise des				selling its animal feed subsidiary,				Technology for Italian protein plant in	Oct	13	24
Petroles-ELF-Erap subsidiary formed R Ato-Plastique — Cie. Française des		15	33	William E. Marshall N Bingham, Samuel Co. – Rubber workers	July	7	40	SardiniaN	Sept	8	19
Petroles-ELF-Erap subsidiary formed R Audio Magnetics Corp. — high-energy	Dec	15	33	agreement Bio-Degradable Plastics, Inc. — develops a	Aug	11	12	BP Chemicals International — PVC unit at Baglan Bay, So. Wales R	Dec	8	28
magnetic tapes sound off	July	7	36	way to photodegrade polystyrene	Dec	8	49	Setting up chemical sales units in sub-			
Austral-Pacific Fertilizers — Australia's fertilizers industry faces continued				Bituminous Coal Research - design plans				sidiaries operating in the Common Market countries N	Nov	24	43
profit drought	July	14	43 31	for pilot plant in Homer City, Pa.; world's first unit for converting coal				British Steel Corp. — state-owned company ordered to shed activities the Conserva-			
Azufrera Panamericana – sulfur prices N	Sept	15	25	into gas is IGT pilot plant due soon OCR pilot unit in the final stages of	Dec	1	17	tive government considers peripheral N	July	7	39
				design	Oct	27	33	Bromine Compounds Co. – Israel's pesti- cides industry banks heavily on know-			
В				Black, Sivalls & Bryson — Stretford process, which can also remove 99.9%				how and export sales	July	14	43
BECIP - Philippines' petrochemical com-			25	of sulfur from gas sublicensed from Pritchard	Sent	22	74	Lummus for plant to convert naphtha			
plex studied N BHP — ethane pipeline across Port	Dec	8	25	Blaw-Knox Chemical Plants - contractors				into natural gas	Aug Sept	25	16
Phillip Bay, Australia, delayed N	July	7	40	predict '72 upturn (chart)	July Sept	28 8	44 37	Brown-Bridge Mills - Kimberly-Clark			
Babcock & Wilcox — acquisition of Atlantic Richfield's Nuclear Materials				Bohn Aluminum & Brass - nitric acid				issues stock (table)		14	14
& Equipment Corp	Nov	10	20	spill charges; company pleads no con- test	Aug	18	29	Jefferson Land Development (table) Bunawerke Huels — EPDM plant		14	14
turn (chart)	July	28	44	Boise Cascade — acquisition of Saturday Review magazine (table)	July	14	14	Burlington Industries - Phase 11: Queuing		24	27
Gulf Design Div. contract for Alcoa's Fort Mead, Fla. unit	Oct	20	23	Boliden A.B cooperation and licensing	July			for price hikes	Dec	1	17
Gulf Design Div. — Farmland Industries' phosphate complex at Bartow, Fla.,				agreement with Rust Engineering in copper processing	Aug	4	34	Burmah Oil — Atlas McAlpine Ltd. see under name			
will test a new process for making			45	Bonner & Moore Associates engineering				BO still looking for partner after Conoco talks fail	July	7	13
phosphoric acid	Sept	22	67	companies are selling computer services to outsiders	Sept	8	35	Petrocarbon Developments see under	-ury	,	
U.S. technology	Sept	8	19	Oil's building boom: What gasoline re-				Will not buy BP shares to which it is			
Badger Ltd. — contract for Romchim's acrylonitrile plant at Pitesti, Rumania . F	R Dec	1	21	fining changes mean for chemical plants (chart)	Sept	1	6	entitled	Oct	13	24
Badische Anilin- & Soda-Fabrik - acquisi-				Study says EPA's costs for lead-free gas are too low-(table)	Oct	13	59	Burns & Roe, Inc Nuplex may find home in Puerto Rico	July	14	26
tion of complete ownership of Elastomer	N July		40	Booz, Allen & Hamilton - International	501	.0	00	Buss — contract for Japanese anhydrous			
Caprolactam unit in Brazil proposed	Dec	8	26	Mergers Service A.G. see under name				hydrofluoric acid plant	1 July	28	15

C				Cerro Corp. — Chile's nationalization of U.S. copper operations: how much will			
C.A. Gases Industriales de Venezuela — Productora de gas Carbonica see under				Chile pay? Dividends in doubt Cesco, Inc. — uncovers four new bacterial	July Oct	21 20	15 23
CDF-Chimie — sales and earnings for				strains that might accelerate bio- degradation of hydrocarbon wates N	Aug	25	47
1970 N CFP Total — Netherlands refinery contract to supply Dow with naphtha:	Aug	11	31	Champion Paper Co. — Gulf Coast Waste Disposal authority will take over treat-			
plans to build a pipeline to Dow's ethylene complex at Terneuzen N	Sept	22	51	ment plant	Sept	1	43
CPC International - Industrial Division -				Rhodiatoce, Polymer and Chatillon N Technology for Turkey's acrylic fiber	Dec	22	19
snack-food business a boom for starches . abot Corp. — Charpie, R. at New York Society of Security Analysts	Nov	17	53	plant	Oct	27	19
Oil and gas business (table)	July	7	12	count on naphtha as a feedstock for long	Nov	17	65
coating for metals, paper, wood and				Chemagro — Bayer merging six wholly owned subsidiaries	Dec	8	18
textiles – it also may help in cleaning up oil spills	Sept	8	39	DDT substitutes, Propoxur, fenitro- thion	Aug	4	36
Calatrava – butadiene expansion at Puertollano	Oct	20	30	Chemcell Ltd. – acquiring CIL's interest in Cel-Cil Fibres Ltd.	July	7	41
Butadiene plant will use Japanese process	Aug	4	19	Name will be changed to Celanese Canada Ltd. at the beginning of '72 . R	Nov	24	19
algon Corp. — packaged cyanide- destruction unit is looking for work N alifornia & Hawaiian Sugar Co. — Leslie	Nov	3	51	Sales and earnings for 10 years — A neat Canadian caper — report (chart) Sales and earnings up in 3rd quarter	Aug	11	27
Salt's Chemical and Food divisions to be bought	Dec	1	18	'71 To acquire interest in Millhaven Fibres .	Nov	10	19 41
alvo Sotelo — Calatrava see under name Camp Chemical — de-icer markets Canadian Industries Ltd. — ammonium	Nov	24	31	Chemetics, Ltd. – Chesapeake Corp.'s pulp-bleaching plant will use CL tech-	July	14	16
chloride and sodium sulfite plant at Cornwall, Ont., planned R	Sept	1	10	Chemetron Corp. — Holland, Mich. plant	Aug	25	16
Chemcell will acquire interest in Cel-Cil Fibres Ltd. Could lose as much as 4% in sales a re-	July	7	41	gets water treatment plant	July Aug	7	15 12
sult of the 10% U.S. import sur- charge	Sept	29	27	for Essex's sulfuric acid plant at Rumford, R.I	Sept	1	10
Sells interest in Millhaven, pulls out of fibers	Nov	7	19	Hydrofluoric acid processes using waste recovered from phosphate fertilizer			
Canpotex — Saskatchewan's Bowerman asks potash industry to support association, N	Dec	22	27	Chemical Distributors Co. — acquires Arizona Agrochemical's fertilizer and	July	14	34
Carborundum Corp. — abrasives plant at Madras, India, expansion	Sept	15	23	agricultural chemicals business R Chemical Products Co. – paint remover		6	15
Fireproofing coatings for steel Trimming tabs at trade shows	Nov	11	19 49	sales Chemical Separation Corp. – process for	Oct	20	65
operating officer: This Englishman collects china, courts Japan	Dec	0	50	complete recycle of pickle liquor Chemicals and Phosphates Ltd. — sul-	Dec	8	42
arbox AB – hydraulic press capable of producing higher pressures developed N	Dec	8 25	56 47	furic acid plant in Israel F Urea plant and ammonia unit start trial		20	30
Cardinal Protein Ltd Acadia Fisheries,	Aug	20	4/	runs ,		3	17
only supplier for a fish protein con- centrate plant at Canso, Nova Scotia,	Coot	15	17	50% interest in Kunstoffwerke Hoehn. F Capital spending will be cut 50% in the		20	30
goes bankrupt Nova Scotia initiates bankruptcy pro- ceedings against CP N	Sept	15	23	DMT process for Russian plant F Ethylene oxide capacity increase at	R Sept	1	10
CARE, Inc. – Wanted: products for CARE – letter	Sept	1	4	Marl, West Germany	July July	21 7	39 40
letter	Dec	15	5	Polybutene-1: Researchers try to develop degradable plastics for packaging	Dec July	8 7	45 40
for patent infringement; company wins "opening skirmish"	Nov	3	14	Chemolimplex – cooperation agreement with Ciba-Geigy	R Aug	4	19
Case, J.I. Co. – UAW Local 80 reaches agreement on 3-yr contract	Aug	11	12	Chemplex - Clinton, Ia. LDPE capacity upped	R Oct	13	29
Cassella Farwerk Mainkur AG - sales and earnings, first half of '71 R	Sept	15	24	plant	N Aug	25	20
Celanese Chemical Co. — acetic and propi- onic acids test-marketing program for a new feed-grain preservative, ChemStor,				bleaching plant will use Chemetics technology	R July	14	16
also as high-energy animal feeds for beef cattle	Sept	8	25	Cheslene & Crepes — ICI plans acquisition	N Aug	11	31
ChemStor wins trial as grain preservative . Gulf Coast chemical plants hard hit by	Oct	6	50	Chevron Chemical — purchase of Vectra Corp. boosts stake in synthetic fibers	July	14	15
RR strike Introduces new triple-threat poly- propylene film	Aug	22	10 73	China Gulf Plastics - chloride monomer plant expansion: VCM unit planned in	Nov	3	45
Justice Dept, suit charges conspiracy involving DWV plastic pipe fittings N Machinery and equipment from the	July	21	17	Kaohsiung, Taiwan Chisso Corp. — polybutene-1: Researchers try to develop degradable plastics for packaging	Dec	8	45
cellulose flake section of Cumberland, Md., plant sold to Perry Equipment . R		27		Chlor-Chem Ltd. — cyanuric acid and cyanuric salts plant	R Oct	20	30
Methanol prices		8		Chrysler Corp. — Dodge features a full- width front panel made of glass-fiber- reinforced polyester	Sept	15	41
Polyester film makers count on new uses to spur sagging growth (chart) Superfinishes: thermosetting coatings	Aug	18	67	Church & Dwight - Arm & Hammer- brand nonphosphate detergent: Phos-	20pt	.5	
bid for furniture market	Dec	8		phate, nonphosphate detergent argu- ments swirl	Sept	29	23
Celanese Coatings — Devoe Div.: N.Y.		24		Cia. Goodyear do Brasil — tire plant at Americana, Brazil	R July	7	45
cites paint for lead content Celanese Mexicana — 10-year expansion	Dec	15	41	Cia. San Noe – PASCO will sell its interest to Financiera Banamex	R Dec	15	33
program in Mexico could involve ex- penditure of \$300 million	Sept	15	23	Ciba — iodofenphos, DDT substitute Ciba-Geigy — borrowing \$24 million for	Aug	4	36
Cel-Cil Fibres Ltd Cherncell will acquire CIL interest in C-CFL	July	7	41	expansion of its U.K. interests		7	40
Celso da Rocha Miranda – caprolactam unit in Brazil proposed	Dec	8	26	Implex		4	19
search Institute – potassium chloride plant	Dec	8	28	in Sweden		20	30
Centre for the Study of Industrial In- novation — U.K. study shows why some R&D projects never get out of the lab				patents, market rights C-G will receive additional \$20 million	. July R Oct	7 20	13
(table)	Oct	6		Sale of dyestuffs and optical-brightening- agents operations to Crompton &			
sludge dewatering	Dec	15	37	Knowles approved	R Oct	6	15

Cie. Française des Petroles – investment			
and production efforts linked with	Dec	15	33
Cie. Industrielle de Textiles Artificielles et Synthetiques – Rhone-Poulenc tex-			
tile subsidiaries will be consolidated and	Oct	20	30
Cities Service — carbon black unit in	Sept	15	23
Fungicide sales - Citicop 4-E N Aug	Sept	8	37
Offering stockholders shares of Atlantic		22	17
Texas natural gas plant capacities to be	Dec		
Clapp & Poliak, Inc trimming tabs at	Aug	11	10
Clayton, George D. & Assoc Project	Nov	3	49
Threshold: 3-year, \$2-million industry- financed study launched to find ways			
to assure accuracy of air pollution	Sept	15	29
Cleveland-Cliffs Iron - Diamond Crystal	Sept	8	25
Tilden Creek, Mich. iron ore pellet out-			
put to be boosted	Aug	25	16
ban on Liquid-Plumr	Aug	25	13
ducts and freeze-dried food markets R Sales and earnings, first-half '71	Sept	29 25	24 14
Coastal States Gas — Lone Stal Gas	July	7	9
merger talks N Colgate-Palmolive — argues for a uniform national limit on detergent phosphate			
content	Nov	3 27	23 29
Dividend boosted	Dec	22	17
mean company will stop selling	Don	15	27
detergents	Oct	20	27
Merger rejected	Nov	3	17
N.Y.'s Erie County phosphate ban challenged	Dec	15	27
Collins & Aikman Corp tentative			
agreement for merger with Imperial Paper (table)	July	14	14
Colombia-Venezuelan Monomer Co. —	Nov	3	19
caprolactam unit at Barranquilla R Columbia Gas System Co. — SNG unit	Dec	1	21
planned	Sept	1	9
solidate operations of seven subsidiaries	July	7	15
into one pipeline company	Oct	20	69
natural-liquids plant N Combustion Engineering – agreement with Svenska Cellulosa Aktiebolaget gives CE	OCI	20	09
rights to produce and market the SCA-			
Billerud chemical recovery process for sodium-based waste sulfite liquor R	Nov	24	19
Debentures offering	Sept	22	22 41
Cominco Ltd. – sales and earnings, first- half '71	Aug	25	14
Commercial Solvents — metaldehyde tries to slow snail's pace	Nov	24	41
Oil and gas business (table) Commonwealth Oil Refining – acquisition	July	7	12
of Bay State	Aug	11	10
Sonatrach for feedstocks N Petrochemical expansion plans hit	Dec	22	9
money problems	Oct	13	22
Conoco Plastics – PVC copolymers dis- continued N	Dec	8	29
Consolidated Aluminum Co. – aluminum ingot price slashed N	Oct	13	57
Strike goes on	Nov	24	21
fertilizers industry faces continued profit	July	14	43
Consolidated Natural Gas — Tecon Gas- ification project	Oct	20	69
Consolidation Coal — Conoco merger defended	July	28	17
OCR pilot plant nearing completion at Rapid City, S.D.	Oct	27	33
Utah reserves low in sulfur content N	Sept	29	51
Constructors John Brown — ethylene pipeline system will link Russian com-			
plex at Nijnekamsk with Kazan N Consumers Power Co. – Midland, Mich.,	Sept	8	19
nuclear power station support grows SNG plant at Marysville, Mich. planned .	Nov Sept	17	23
Consumers Union — Lushbough urges a			
return to soap while industry develops a safe phosphate replacement N Urges ban on household cleaning	Nov	3	23
products	Aug	25	13
Continental Copper & Steel — Braeburn Div. near Pittsburgh will close R	Nov	24	19
Div. near Pittsburgh will close R Continental Oil Co. — Agrico Chemical Div.'s Layton at FI annual conference			
says environmental concern, restrictions bother makers	Oct	13	20
Burmah Oil still looking for partner after Conoco talks fail	July	7	13
Conoco Chemicals - Nonionics are set		**	

Conoco Chemical supplying vinyl chloride				Dart Industries - Purechem see under name				Gerstacker indicates steel settlement is	A		10
monomer to three Brazilian companies Oct. 1	Sept	29	24	Dawood Hercules Chemicals - fertilizer	Nov	17	66	Gerstacker on the tax bill N Gerstacker on wage-price controls N	Aug Dec Aug	1 1 4	12 13 5
tion of coal, other energy sources defended	July	28	17		Dec	15	33		Nov	17	55
Houston fluid catalytic cracking and vapor recovery units to be revamped . R	Aug	4	12	DeBell & Richardson, Inc. – plastic re- cycling study	July	28	26	Interdisciplinary research (table)	Aug Dec	25 22	43
McCollum: Only CPI member named to a Phase II stabilization board	Nov	3	16	Ultraviolet accelerator for PP	Dec	8	49	Midland, Mich., nuclear power station	Nov	17	23
McLean suggests three specifics to solve				deep sea mining venture in '73 N	Oct	20	69	Midland, Mich. plant's accidental spill		11	34
Synthetic alcohol: C6-C18 straight-chain	Nov	10	75	Deepak Nitrite Ltd, — India's first sodium nitrite plant	July	21	33	results in \$500 fine	Aug Sept	1	33
primaries have been accepted by FDA as replacements for natural alcohol N	Nov	10	61	Degussa – methionine plant R New forms of silica that repel water	Aug	4	19	Nuplex may find home in Puerto Rico . Oasis Pipe Line Co. see under name	July	14	26
Synthetic alcohol plant at Sakai,	Oct	20	30	are looking for chemical jobs Process for Argentine hydrogen per-	Sept	8	39	Oil and gas business (table) Oil and gas joint exploration program	July	7	12
Japan	OCI	20	30	oxide plant	Sept	15	24	on the Gulf Coast	Sept	1	10
in Mexican hydrofluoric acid plant (chart)	July	14	34	Delst Chemical & Research Co. – metal- dehyde tries to slow snail's pace	Nov	24	41	'Outside' directors are 'in'	Aug Sept	18 29	57
Cook Paint & Varnish - paint remover		00	0.5	Delta Chemical — de-icer markets	Nov	24	31	Petroquimica Bahía Blanca set up to take over construction of ethylene-			
Sales Cooper Laboratories – acquisition of two ethical-pharmoeutical manufac-	Oct	20	65	recover Claus unit tail gas N Desarrollo Químico Industrial, S.A. –	Aug	18	88	based complex proposed 3% years agoN	Nov	17	31
turers: Smith, Miller & Patch and Establecimentos Lauzier of Mexico	Sept	1	10	methyl chloride and chloroform plant in Spain N	Sept	15	21	Polystyrene expansion at Terneuzen, Netherlands, will be adapted to pro-			
Kendall product lines eyed	Nov	3	17	DeSoto – Univ. of Chicago Medical School study on safety of detergents blasted N	Nov	17	51	duce ABS N Potassium bromate prices N	Sept	29 14	27 33
Corning Glass — FTC compaint cites CG for establishing its so-called fair-trade				Detrex Chemical Industries — dividend payments will be skipped N	Sept	1	5	Price hike proposal (table)	Dec	15	19
minimum price program in 14 states R Sales and earnings in '71	Oct	27 14	21 15	Detroit Edison - Wyandotte, Mich.				Price increases on epsom salt and mag- nesium chloride N	Dec	22	27
Coromandel Fertilizers – fertilizer capacity buildup	July	21	29	families file joint air pollution suit Deutsch, Shea & Evans — demand for	Aug	4	10	Prices of propylene oxide, propylene glycol and dipropylene glycol N	Aug	18	73
Coulton Chemicals - molecular sieves	July	21	20	scientists and engineers rose slightly in May	Aug	18	87	Rifadin (rifampicin) antibiotic effective against TB	Aug	18	27
may be the answer to controlling emis- sions from sulfuric acid and nitric acid				'72 job outlook for scientists and engineers				Swiss franc bond issue N	Nov	10	27
plants N Courier Communications – Whittaker	Nov	17	65	seems better		22	31	Texas natural gas pipeline system is being expanded 333 miles	July	21	13
will sell its distribution rights to Resdel Engineering	July	7	15	become a subsidiary of AGA Gas Deutsche Marathon Petroleum – benzene unit at Burghausen, West Germany, re-	Sept	15	23	Trimming tabs at trade shows	Nov	3	49
Courtaulds Ltd. — Chairman, Lord Kearton, says Britain will have another devalua-				finery added	July	28	15	for certain registrations expected to be	Oct	20	27
tion within 12 months N Chemical and fiber companies avoiding	July	21	35	for expansion of petroleum coke cal-		_		answered formally by EPA N Urethane foam polyols prices N	Dec	15	27
strife in Northern Ireland	Sept	8	24	cination plant at Burghausen, Bavaria. R Dharamsi Moraji Chemical — two-stage		7	45	Venture-capital activities	July	28	25
Crane Corp Obtains a license to the	Dec		21	complex planned	July	21	33	extended beyond the present mid- December closing N	Nov	24	14
Otto plate-type generator from CEO of Paris	Nov	3	55	ester output	Sept'	15	24	Western Div. to design and test large hollow fiber modules for desalting			
Crawford & Russell – PE plant for Yugoslavia	Nov	17	35	Iron merger called off	Sept	8	25	brackish waters N	Aug	18	88
Creosote Oil Corp Crown Zellerbach issues stock (table)	July	14	14	Rock salt plans	Dec	15	22	Dow Chemical Canada — sales and earnings for 10 years — A neat Canadian			
Cresco Fertilizers Ltd. – Australia's fertilizers industry faces continued profit	July	14	14	General Printing & Publishing Co. (table)	July	14	14	caper - report (chart) Dow Chemical Investment and Finance	Aug	11	27
drought	July	14	43	Diamond Laboratories – acquisition of Syntex Labs approved	Sept	1	10	Corp set up to restructure activities of Ventures Investment and Finance			
Du Pont does not exercise option to buy Cresco's nitric acid and ammonium				Diamond Shamrock – caustic soda prices going up	Dec	8	17	Co. and Dow Chemical Financial Corp., R	Dec	22	17
nitrate facilities at Westernport, Victoria	July	14	40	Chemical hiring: no pickup in '72	Nov	3	20	Dow Corning - chemical hiring: no			00
Sells fertilizer interests to Adelaide & Wallaroo Fertilizers	Nov	24	21	(chart)	NOV	3	20	pickup in '72 (chart)	Nov	3	20
Croda — proteins add muscle to toiletries and cosmetics	Aug	4	21	ion exchange resins in Japan R	Sept	15	18	chairman of the board: Early riser keeps silicone maker in No. 1			
Crollier Chemical — Brea, Calif., urea plant uses a single combustor with				Nopco Chemical Div. – patent on de- foamer (letter)	Oct	13	5	position	Oct	20	86
waste heat boiler system Crompton & Knowles – acquisition of	Sept	1	44	Oil and gas business (table)	July	7 21	12 41	21-41 N Wetting agents based on silicone-glycol	Dec	22	27
Ciba-Geigy's dyestuffs and optical-				Urethane foam business sold to Grand Sheet Metal Products	Dec	22	17	copolymers introduced N	Dec	15	39
brightening-agents operations approved . R Acquisition of Intracolor R	Oct Aug	6	15 12	Digital Equipment Co five new large-			35	Dow Europe — agricultural research unit at Kings Lynn, Norfolk, expansion R	Dec	8	28
Cros S.A. – forms jointly owned com- pany with Union de Explosivos-Rio Tinto				scale computer systems developed N Distrigas Corp. — LNG imports blocked		15 7	15	President Merszei estimates sales increase	Dec	8	28
to consolidate fertilizer sales R		15	33	Dolco Packaging – production unit at Decatur, Ind	Aug	4	12	Dow Quimica – polystyrene unit in Brazil	Dec	8	27
Merger talks with UE-Rio Tinto could be delayed because of internal				Domtar – phthalic anhydride plant at Toronto will be phased out	Dec	1	21	Dow Unquinesa - phenol plant at Bilbao,		7	45
strife	Dec	22	19	Dorr-Oliver – technology and equipment for sulfuric acid plants in Russia F		15		PE units at Tarragona, Spain, planned R		7	45
port Creosoting Co. and Creosote Oil Corp. (table)	July	14	14	Dow Chemical Co ABS plant: new unit	Jopt	13	24	Du Pont de Nemours, E.I. & Co. Inc. — acrylic fiber plant at Maydown, Ireland			
Crown Zellerbach International – Japan gives approval for synthetic wood pulp				in Connecticut, expansion at Midland, Mich. (table)	Oct	20	23	expansion	July	14	16
at Mitsui's Chiba Works R	Nov	3	17	Barnes, Earle warns on environmental curbs on chemicals	Oct	20	21	option to buy Cresco's nitric acid and			
Nippon Kakoh Seishi studying European synthetic paper market prospects R	R Nov	3	17	Brazilian HDPE plant in Bahia – approval	1	13		ammonium nitrate facilities at Western- port, Victoria	July	14	40
Cyanamid of Great Britain Ltd. – mela- mine plant at Gosport, Hampshire, sold				CFP Total to supply naphtha; plans to		,0	3.	Butadiene as a raw material for neo- prene and fibers change butadiene			
to British Oxygen	July	28	10	build a pipeline to Dow's ethylene complex at Terneuzen	V Sept	22	51	outlook	Nov	3	41
Transportation report	Sept	29	53	Carbon tetrachloride-based liquid grain fumigant prices	V July	21	41	Cellular polyester called pneumacel N Central Research Dept.'s director	Nov	3	51
New method of forecasting chemical demand	V Sept	29	37	Caustic soda prices going up Chemical hiring: no pickup in '72	Dec	8	17	Theodore Cairns: No four-day week for this research chief	July	28	48
Cyclo Mfg plastic spheres will be used to reclaim a 2,400-ton barge from the				(chart)	Nov	3	20	Chemical and fiber companies avoiding strife in Northern Ireland	Sept	8	24
Gulf of Mexico	4 Aug	18	88	Consolidated Fertilizers Ltd. see under				Chemical hiring: no pickup in '72		3	
D				Corrosion inhibitor system for ammonia and hydrogen plants using mono- ethanolamine stripping — pricing sys-				(chart)	Sept	8	
DCM CODM ever-in-	84.	-	02	tem revealed	N Oct	13		Corfam feers to tread	July	7	30 22
DSM – EPDM expansion Formaldehyde resins unit for Delfzijl			27	De-icer markets	Nov	24	31	Corfam inventory sold to G. Newman			
Planned with Akzo	R July	21	33	Dow Chemical Investment and Finance Corp. set up to restructure activities of Ventures Investment and Finance				& Co	N Oct	27	29
tralize, shorten its lines of communica- tion to achieve the greater marketing flexibility needed for its new product				Co. and Dow Chemical Financial	R Dec			in Deepwater, N.J	R Oct	13	29
mix	. July	7	41	Dow's profit program is paying off Ethylene plant joint venture in Canada	Aug	1 4		dustrial S.A. Dividends in doubt	Oct	20	23
caprolactam unit at Barranquilla,	R Dec	1	21	considered	N Sept	1	13	Ethylene plant joint venture in Canada		4	13
Dainippon Ink & Chemicals - French	.,			pational safety	Dec	1	16	Fluorocarbons facility near Corpus			
joint venture urethane resins plant Liquigas negotiating to license syn-				Gerstacker: 'Design plants to capture and recycle pollutants. It's good				Christi, Tex., tentative plans Fungicide sales — Manzate 200 N Aug	July	14	
thetic protein technology	R Nov	10	87	business'	. Aug	18	3 27	11-18	. Sept	8	37

German subsidiaries, Du Pont Fotowerke				Eastern Nitrogen Co Australia's			
Adox and Du Pont de Nemours (Deutschland) merged; Fotowerke be-				fetilizers industry faces continued profit drought	July	14	43
comes photo products department of Du Pont Deutschland R	July	21	15	Eastman Chemical Products — cellulose acetate butyrate (CAB) modified			
Gulf Coast ethylene plant may not be		-		urethane finish for furniture	Dec	8	31
built	Nov	17	17	Resins plant at Longview, Tex., started up	Nov	10	61
'in' Hydroffuoric acid unit slated for	Aug	18	57	up	lister	14	16
Burnside, La. (chart)	July	14	34	Ecocontrol - toys: pollution test kits	July Dec	22	34
Interdisciplinary research (table)	Aug	25	43	Ecodyne Corp. — phosphate, nonphosphate detergent arguments swirl	Sept	29	23
development won	Oct	6	14	Economics Laboratory - Consumers Union			
Latin American executives seek exemption from Nixon's import surcharge N	Sept	15	21	urges ban on Finish and Electrasol Sales and earnings	Aug	25 8	13
Methanol prices N Mexican joint hydrofluoric acid plant	Oct	6	43	Eirol Ltd. – petrochemical complex at Ringaskiddy, Ireland	Cont	8	22
near Matamoros planned R	Aug	4	12	Elastomer AG — BASF acquires complete	Sept		
Moosic, Pa. explosives plant damaged by blast, will shut down production				ownership N Elcor Chemical – "four-point program for	July	7	40
except for immediate DOD orders R	Aug	11	10	growth"	Sept	8	14
- letter - Nader Report: The Raiders, too, have a	Sept	1	4	Seeking refuge under Chapter 11 of the Bankruptcy Act	July	28	9
responsibility - Viewpoint	Dec	1	5	Electro-Chemical Industries — Israeli	Nov	24	21
1 The Raiders throw the book at				PVC plant addition	INOV	24	21
Du Pont	Dec	1	31 35	efforts linked with Cie. Française des		45	00
The Raiders: Who they are, how	0	1		Petroles; four subsidiaries formed R Petrochemical research efforts to be	Dec	15	33
Du Pont answers the charges of Nader's	Dec		36	pooled with AGIP and Petrofina R Elizabeth Arden Sales Corp. — American	Dec	15	33
Raiders	Dec	8	36	Cyanamid's controversy with Eli Lilly			
doomed by high operating costs	Sept	22	22	and EASC case to court	Sept	29	23
'72 outlook: McCoy sees fiber sales, firmer prices boosting profits	Dec	22	29	LNG imports blocked	July	7	15
Nitric acid plants at Gibbstown, N.J., use				Defense and State Dept, okay \$1 billion deal	Aug	11	11
Chemico double-catalytic combustors	Sept	1 21	44	Marad asks FPC to delve into El Paso's	, 105		
Nylon prices move up	Aug	4	27	intentions to build cryogenic tankers in France to transport LNG to U.S.	Sept	29	22
Optical fiber: "new type", Crofon IRX . R Paint remover sales	Sept	29	24 65	Six gas ships, maybe	Oct	27	21
Pension plan liberalized N Photo Products Dept. – High-energy	July	28	9	Coal gasification: shortage of natural gas spurs coal gasification			
magnetic tapes sound off	July	7	36	development	Oct	27	33
Pigments plant in Newark shuttered for two days as a result of power failure				Coal gasification plant planned in New Mexico N Aug 25-47	Sept	1	9
caused by tropical storm Doria	Sept	8	15	Commercial coal gasification plant may be taking shape in the heart of Texas			
Polyester film makers count on new uses to spur sagging growth (chart)	Aug	18	67	natural gas country N	Aug	18	87
Polyester film prices N	July	14	33	Merger with Pacific Northwest: bribery charges stymie merger okay	Dec	8	17
PE film plant at North Bay, Canada, expansion	Dec	1	21	Emery Industries - Pres. D.R. Hinkley			
Polypropylene patent dispute with Montedision still not settled N	Dec	15	39	reported sales up, earnings down, outlook bright	July	7	13
Printing plates made with photopolymer.	Oct	27	39	Empresa Nacional de Petroleo (ENAP) -			
Puerto Rican dyes project planned Railroads strike affect	July	14	12 17	raw materials for Concepcion complex . N Endo Laboratories – drugmakers seek	Sept	15	21
Realignes product lines: Industrial				vaccine and pill to fight narcotic addiction	Sept	1	39
Chemicals Dept., Polymer Intermediates Dept. and Photo Products Dept. will				Energia e Industrias Aragonesas, S.A. –	Sept	,	35
be set up	Nov	24	20 5	Dequisa see Desarrollo Químico Industrial S.A.			
Sulfate: remaining capacity to be				Energoinvest see Rad. Energoinvest Engelhard Industries – Ford will install PTX			
phased out by '74	Dec	22	23	exhaust gas purifiers in all cars for sale			
bid for furniture market	Dec	8 21	31 45	in California in 1974 – Aug 11-16 N Metal Associates see under name	Dec	15	39
Taiwan plant to make precision-molded				Engelhard Minerals & Chemicals -			
parts for electronics products Thermoplastic elastomers, new class	Nov	3	45	public offering of 25-year convertible debentures	Sept	22	24
called Hytrel R	Nov	24	29	Stock offering deferred R Worldwide rights to isomerization	Nov	10	20
Toluene diisocyanate plant in Brazil proposed	Dec	8	26	process developed by British			
Unions go global	July	14	17	Petroleum	Aug	11	40
freeze as self-sealing won N	Nov	24	23	Bayway, N.J., will be shut down N Nov	**		00
Du Pont of Canada – nylon spinner units converted to polyester fiber production				10-13 Ethylene project still on the active	Nov	17	23
at Kingston, Ont. plant	Dec	1	21	list	Nov	17	17
Canadian caper - report (chart)	Aug	11	27	new trademark, EXXON N	Sept	29	17
Sales and earnings up in 3rd quarter	Nov	10	19	Predicts major growth in PP fabric markets, Summerville, N.C. plant			
71 Du Pont Fotowerke Adox - merged:				slated to open in May '72 N	Nov	24	23
Merged with Du Pont Fotowerke Adox: Fotowerke becomes photo				Envirco – toys: pollution test kits Enviro-Chem Systems – Mercury-vapor air pollution control system for use in	Dec	22	34
products department	July	21	15	air pollution control system for use in mecury-cell chlorine plants developed . R	Nov	17	24
\$20-million, 15-year bond issue N	Sept	15	21	Envirogenics Co DDT coatings degrades N	Aug	4	33
Du Pont Fotowerke Adox – Merged: Fotowerke becomes photo products				Pilot plant will remove even the traces of DDT from industrial waste waters . N	Aug	4	33
Department of Du Pont				Envirotech - Buell Div pollution			
Deutschland	July	21	15	equipment at Chemshow	Dec	8	41
a 15-year, \$8-million Swiss franc bond	C		0.0	centrifuge designs aimed at sludge	Dee	15	27
issue N Greek polyester fiber plant N	Sept	15 25	21	dewatering EimPAS (Eimco Phosphorus Adsorption	Dec	15	37
Du Pont Overseas Finance — plans to offer \$30 million worth of notes, due				System) demonstrated	Oct	13	66
'78	Dec	8	28	make and market water treatment			
Dynachem Corp. – dry film photopolymer could eliminate some disposal problems. N	Nov	24	33	systems and industrial waste water processing equipment in Japan, S.			
Dutch State Mines see DSM		24	00	Korea and Taiwan R	Sept	1	16
E				Equity Research Associates – international sulfur markets; Canada, France, Mexico			
_				and Poland agree to ration sulfur sales . N	Sept	15	25
ESB Inc Pennsylvania being pressured for some kind of corporate tax relief . N	Aug	18	18	Erba, Carlo Sp A – Montedison acquires control	Dec	1	21
Top CPI firms threaten to seek greener	Sept	29	39	Ericsson Chemical Services — nuclear ship			
tax pastures	3eb(29	39	"Sevannah" may transport Ruerto Rican chemicals or may become museum	Oct	27	21
chemical fertilizer and pesticide business to Valley Nitrogen	Oct	6	15	Essex Chemical — contract to Chemico for sulfuric acid plant at Rumford, R.I. , R		1	10
		0		serious asia piant at nalmora, n.i., , n	John		10

0.1/ 1			
Sulfuric acid plant in Newark Shuts down for several hours due to storm Doria	Sept	8	15
Esso – Humble testing customer reaction to a new trademark, EXXON N	Sept	29	17
Esso (Australia) — ethane pipeline across Port Phillip Bay, Australia, delayed . N	July	7	40
Esso-BHP — acquires all Cresco's land and buildings at Westernport, Victoria . N	July	14	40
Esso Chemical Eastern – Laibe, John,	July	14	40
new president: Connecticut Yankee tackles the Far Eastern market	July	21	58
Esso Research & Engineering — separation technique adapted for use in blood			
oxygenation	Sept	22	69
emissions from jet aircraft by modi-	A		24
Establecimentos Lauzier of Mexico -	Aug	4	34
acquired by Cooper Labs	Sept	1	10
make solid market gains Ethyl Corp. – Gulf Coast ethylene plant	Dec	22	36
may not be built N Kellogg hired to begin study of ethylene production facilities at chemical	Nov	17	17
Ship Channel	Sept	8	9
Oil and gas business (table) Sales and earnings in '71	July'	7	12
Ethylene Plastique - minority holding in			
Venezuelan LDPE plant N Eurosyndicat Investment Research Bureau – profits fall for Europe's	Oct	20	31
chemical giants; ICI bucks trend (table)	Oct	27	51
F			
FBA Pharmaceuticals — Bayer merging six wholly owned subsidiaries	Dec	8	18
FMC Corp American Viscose Div	Dec	8	18
Fiber producers seek price increases under Phase II guidelines (chart)	Dec	8	17
under Phase II guidelines (chart) American Viscose Div. rayon prices N American Viscose will build plant to tex- turize polyester filament yarns for warp	Dec	22	27
turize polyester filament yarns for warp			
knit and texturized fabrics at Radford, Va	Oct	27	21
Coal gasification: shortage of n-g spurs			
coal gasification development Coal gasification plant, commercial-scale,	Oct	27	33
coal gasification plant, commercial-scale, will be built	Sept Sept	1 8	9
Foster Grant and FMC talking merger R			
Oct 6-15	Oct	13	28 24
Green River, Wyo., soda ash expansion N July 7-33	Oct	20	22
Proposed \$75-million public offering of 30-year debentures	Sept	22	22
Soda ash prices	Dec	8	29
Sodium sequicarbonate prices N Fabricaciones Militares — Petroquimica	July	21	41
Bahia Blanca see under name Familian Corp. — acquisition of Whittaker's			
Kelly Pipe Div	July	7	15
Jugoslavija joint venture R Dividend cut this year; nine-month sales	Sept	15	24
and earnings N	Dec	15	35
and earnings	0	0	10
Phenthoate, DDT substitute	Dec	8	18 36
Phenthoate, DDT substitute Sales and earnings, '71 first half N 8 months in '71 N	Sept	3	13 43
'71 profits slide (table) Toluene diisocyanate plant in Brazil	Oct	27	51
proposed	Dec	8	26
report (charts)	Sept	22	33
report (charts) World plastics markets N Farbwerke Hoechst AG — calcium cyana-	Sept	29	37
mide production dropped N Entering industrial clothes rental	July	7	40
business – joint venture Miet-Textil . N Joint ventures with oil producing nations considered; also research partnerships	July	21	35
with chemical producers at home and abroad	Oct	13	31
abroad	Dec	8	28
reduced	Dec	1	21
gram N Sales and earnings, first 8 months of '71	Dec	1	43
N Oct 6-19	Nov Oct	3 27	43 51
SOC. POINTIEROS DE MIEXICO SEE UNDEI HAITIE	OCI	21	01
Technical cooperation agreement with Russia	Nov	24	43
Technology for Mitsui's epoxy resin plant	Nov	3	17
Up goes mark, down go German profits – report (charts)	Sept	22	33
World plastics markets N Farmitalia – Montedison acquires full	Sept	29	37
ownership	Dec	22	19
ChemStor, acetic propionic acid mix for			
Sept 8-25	Oct	6	50
onstream late '71	Sept	15	18

Plant credits isothermal reactor with a single 300-hp. agitator for savings . N	Sept	15	35	Merger discussions called off R Foster Wheeler – Contractors predict '72	Nov	17	24	Georgia-Pacific — Baton Rouge workers			
Phosphoric and superphosphoric acid	Sept	10		upturn (chart)	July	28	44	laid off during construction slowdown band together to win contract mainten-			
plant near Green Bay, Fla. planned . R	Aug	11	10	Engineering for Barazilian melamine			04	ance jobs away from AFL-CIO	Sept	1	42
Farnsteel – chemical vapor-deposition technique to clad process hardware with				plant	Sept	15	24	Congressman wants mercury users to share abatement secrets: G-P offers in-			
tantalum developed	Dec	1	43	TPA and DMT technology obtained . N	Nov	17	65		July	14	16
Farukawa Electric - first Japanese firm to				Yugoslavian contract for Pancevo com-	Mari	17	25	Joint venture to explore for petroleum			
export fabricated nuclear fuel; agreement with the Pakistani AEC N	Aug	18	87	Foxboro Co. — in-line blending unravels	Nov	17	35	and natural gas in Ark. and La. (table)	July	14	14
Federal Pacific Electric - merger with U.S.				chemical mixing maze (flowsheets)	Nov	24	35	Plaquemine, La. complex in operation H	Aug	25	16
Smelting, Refining & Mining being				Freeport Minerals - Freeport Kaolin Div.				Research project aimed at getting mer-			
considered R	Nov	3	19	develops process for surface-modified pigments, "OX" process	Aug	11	35	cury out of a chlorine-caustic plant's waste sludge	July	14	10
Federal Paper Board — leasing plant at Elk- hart, Ind., to make folding cartons (table)	July	14	14	Oil and gas business (table)	July	7	12	Gervais-Danone - gelling agents find a new			
Merger with Riegel Paper	Aug	25	14	Friedrich Uhde - protein-from-oil process				market in frozen desserts in France	Aug	18	43
Felton, S.A. Co. – plastic ski surface for				to be developed under German Science Ministry program	Dec	1	43	Getty Oil — Delaware's air pollution regu- lations for sulfur dioxide emissions:			
Ferenka Co. – Irish plant to make steel	Sept	1	11	Russian VC monomer plant will use U.S.				company asks for more time to comply			
tire cord	Sept	8	22	technology N Fuller, H.B. Co. – Multi-Clean Products	Sept	8	19	with Sept. 1 '73 deadline	Oct	13	21
Ferguson, H.K. Co. — contractors predict	-			Div. – scrubbing brush impregnated				Glaxo Group Ltd. – Beecham offers to buy company	Dec	15	33
'72 upturn (chart) Fertilizantes Fosfatados Mexicanos —	July	28	44	with silicon carbide called Poly-Grit	Nov	24	31	Wilson asks U.K. government to examine			
PASCO will sell its interest to Financiera								Beechman's takeover bid R Glidden — N.Y. cites paint for lead con-	Dec	22	21
Banamex R	Dec	15	33	G				tent	Dec	15	41
Fertilizer and Chemicals Travancore –	folia	21	22	9				Paint remover sales	Oct	20	65
Cochin plant expected onstream in Sept . Fertilizer Corp. of India – nitrogenous	July	21	33					Glucides & Derives - renamed Melle-	Oct	20	30
and phosphatic materials fertilizer				GAF Corp calsilite operation at				Bezon	OCI	20	30
expansions	July	21	29	Gloucester City, N.J. to be disposed of.	Oct	20	22	vice-president: What chemical makers			
nitrite plant	July	21	33	Ethylene oxide unit at Linden, N.J., closing	Nov	10	13	Aztran production will stop after	Sept	15	15
Fiber Industries Ltd. — to acquire interest				Industrial Photo Div.: Leibowitz says				Dec. 1 N	Oct	27	29
in Millhaven Fibres	July	7	41	silver systems that go into sensitized				Gulf's PVC unit at Shawinigan interests			
Mexico	Oct	27	19	goods for the photographic market are still tops	Nov	24	28	Goodrich N Oct 6-9 R	Dec	1 25	43
Fibreboard Corp issues stock for Round				Linden, N.J. complex shifts being				Interdisciplinary research (table) PVC use in construction will grow sharp-	Aug	25	43
Prairie Lumber Co. (table)	July	14	14	studied	Oct	20	22	ly during the '70s N	July	14	33
Sales and earnings — third-quarter estimated	Oct	13	28	Moran, Juliette: A U.S. executive who reads Proust — in French	Aug	18	104	Selling 20% of its ownership in Geon de Mexico to Mexican interests	Sept	1	16
Fields Plastics & Chemicals — earnings for				OCAW Local 3-217 in Chattanooga,				Venezuelan vinyl chloride plant	Sehr		10
fiscal '71	July	14	15	Tenn., new contract	Aug	11	12	planned N	Aug	25	20
injunction barring Slick from exercising				and caustic soda at Linden, N.J., plant				Goodrich, B.F. Tire Co Goodyear will			
its 50.7% stock ownership in Filtrol . R	Nov	17	24	because of mercury problems	Oct	6	13	sell its shares of Rubberfabriek Vredestein stock to Goodrich	Oct	27	19
Filtrol drops antitrust suit against Slick;				Tenneco studying the possibility of a				Thomas, 'Pen': Goodrich considers him			
Slick must form a new corporation to take over the assets it sold to Pacific				25-mile acetylene line to GAF at Texas City	Dec	22	31	a 'real winner', who will move the com-	0	00	00
Vegetable Oil	Nov	24	19	Garbato - sodium bichromate, sulfur	500		0,	pany ahead	Sept	22	23
Slick officers fill FC posts. Is merger in	Dec	0	10	dioxide unit for India	Sept	15	23	maker?	Dec	15	56
the wind?	Dec	8	10	Gas del Estado — Petroquimica Bahia Blanca see under name				Goodyear Tire & Rubber Co FRB au-			
Fertilizantes Fosfatados Mexicanos and				Gascarb see Productora de gas Carbonica				thorizes company to continue as one-	Das	15	22
Cia. San Noe to be bought R	Dec	15	33	Gazocean - alleged monopoly in trans-				bank holding company	Dec	15	22
Finc SpA — ethylene-vinyl acetate criss- cross strips lengthen ski season near				atlantic shipping is crux of U.S. suit with foreign firms	Dec	22	16	with Goodyear over patent on a unique			
Bergamo, Italy	Sept	1	11	Gelsenberg AG - Phrix nylon and poly-	000			flexible hose for auto radiators N Plastic film prices N	Oct	27 21	25 41
rinnish refuxides — nydrogen peruxide				ester plant expansion	Aug	4	19	Polymer Corp. asks for a finding that im-	outy	**	
plant; Finns take petrochemical plunge (table)	Aug	4	17	Protein-from-oil process to be developed under German Science Ministry pro-				ports of styrene-butadiene rubber by			
Firestone Tire & Rubber - debentures				gramN	Dec	1	43	Goodyear of Canada be considered dumping of the material by its Japanese			
offering	Oct Aug	6 25	15	GEMS-ITV (Graduate Engineering, Manage- ment and Science Instructional Tele-				producerN	Sept	1	33
Dividend horosted	Dec	22	17	vision) - closed-circuit TV helps re-				Rubber Workers turn down company bid	feeter	7	10
FTC challenges ads	Sept	8	12	searchers keep up with new technology	Nov	10	71	to restore eight-hour day	July	/	16
Firestone, Raymond favores greater				General Battery — lead smelting plant in Reading, Pa	Sept	29	24	sold to Goodrich	Oct	27	19
domestic productivity rather than trade barriers as an answer to growing im-				Reading, Pa	Jope	20	24	URW Local 232 in Toronto, Ont., agrees	Sept	22	24
ports	Nov	24	17	Div. expects to lay off 7,000 persons by				on a new contract	Sept	22	24
Rubber Workers turn down company bid to restore eight-hour day	July	7	16	early '72	Aug	11	10	Grace, W. R. & Co. – Borg Services acquired by Atlas McAlpine	Nov	10	87
Sales and earnings in '71	July	7	14	family of semiconductors N	Dec	22	31	Chemical hiring: no pickup in '72			
Nine-month earnings	Setp	1	9	Management changes: Charles Heed moves				(chart)	Nov	3	20
Fisons Fertilizers — antidumping duties on fertilizer imports asked N	Nov	3	23	up to senior v-p; Rueben Gutoff now v-p and group executive of Components				coatings for steel	Aug	11	19
Chlor-Chem Ltd. see under name				and Materials Group; John Welch will				Cresco Fertilizers see under name			
Fertilizer information to be shared with ICI and Shellstar	Nov	10	27	head new Chemical Div N Nitration: new process for milder nitra-	Aug	25	9	Davison Chemical Div. has world-wide			
Florida Gas – stock offering R	Aug	11	10	tions	Nov	24	42	license to Purification Sciences' plate- type generator	Nov	3	55
Fluor Corp. — licenses process to recover				Pennsylvania being pressured for some				Davison Chemical Div. offers new, com-			
Claus unit tail gas N Lurgi plant to make gas equivalent to	Aug	18	88	kind of corporate tax relief N	Aug	18	18	pact air-cooled ozone generators in modular arrangement N	Oct	6	48
natural gas studied by new group N	Nov	3	51	Top CPI firms threaten to seek greener tax pastures	Sept	29	39	How money managers protect companies	oct	0	40
Fluor Utah Engineers & Constructors -				Reed, Charles, senior v-p : The man be-				during monetary crises	Nov	17	55
contractors predict '72 upturn (chart) Foam-Lite Plastics Co. — acquired by In-	July	28	44	h'nd the company's most important chemical progress	Cont	15	48	Offers up to \$17 million for Mr. Gasket,	July	14	14
land Container (table)	July	14	14	Reprocessing plant will use Aquafluor	Sept	15	40	auto-parts maker Oil and gas business (table)	July	7	12
Ford, Bacon & Davis - contract for				process (flowsheet)	Aug	18	91	Preparing a new process to make news-			
Texaco's sulfur recovery plant at Pointe-a-Pierre, Trinidad	Sept	8	16	Silicone resin, rubbers, prices N	July	21	41	print from bagasse	Sept	29	21 17
Pointe-a-Pierre, Trinidad R Licenses process to recover Claus unit	Sept	0	10	Thermoplastic polyesters, Valox, offered	Oct	6	48	Stock offering	OCE	20	17
tail gas N	Aug	18	88	General Foods — cooking bag-plus-				planned R	Aug	4	12
Ford Motor Co Englehard Industries'				seasoning product, Roast'n Boast N		27	29 69	Graham Magnetics - Cobaloy, a metallic			
PTX exhaust gas purifiers to be in all cars for sale in California in 1974 Aug				Freeze-drying method developed	Sept	22		Grand Sheet Metal Products — acquires	July	7	36
11-16 N	Dec	15	39	14-15	Sept	1	9	urethane foam business from Diamond			
Glass-fiber-reinforced polypropylene	Sept	15	41	General Motors — engineers find national air quality standards are too restric-				ShamrockR	Dec	22	17
fender liner		10	41	tive	July	7	27	Great Lakes Chemical — El Dorado, Ark., OCAW members replaced during a strike			
Nixon's plug	Oct	6	12	Plastics in '71 models — No big gains;				that started 14 months ago seek to re-			
Proposed safety car could broaden out-	Aug	4	10	auto makers ask suppliers to roll back	Sept	15	41	turn to work, citing compliance with the			
lets for plastics, fibers	Aug	**	10	prices to '70 levels	Sohr	10	41	Nixon request	Sept	8	15
government can, in a divestiture suit,				autos, could boost demand for syn-		-		El Dorado, Ark. plant	Oct	20	22
forbid a company from using its own				thetic lubricants	Oct	27	27	Grefco - Dicalite Div perlite filter aid			
resources to move into a new product area	Oct	27	20	General Printing & Publishing Co. — acquired by Diamond International				and filler plant at Crawfordsville, Ind R Grimm, W. T. & Co. — merger rate slowing	July	14	16
Foseco Minsep, Ltd. – African nickel-				(table)	July	14	14	study shows	Oct	13	24
copper development; stock transactions must be ironed out first	Aug	4	11	General Tire - British court upholds GT's		-		Mergers and acquisitions report N	July	7	9
Foster Grant — Ashland Oil acquisition	Aug	"		suit against British Firestone subsidiary on patent on tire treads made from oil-				Grow Chemical - Banks: Credit will			
called off	Oct	6	15	extended rubber N	Aug	11	39	enable company 'to implement our long- range growth plans'	Aug	4	11
FMC and FG talking merger R Oct				Geon de Mexico - Goodrich selling 20%				Grow's goal: cash in on coatings	July	7	20
6-15	Oct	13	28	of its ownership to Mexican interests . R	Sept	1	16	Sales and earnings in '70	Sept	1	9

Guardsman Chemical Coatings - Super-				NABI agreement: guarantees five-year				Domestic operations being cut as part of			
finishes: thermosetting coatings bid for	0		n.	loan of \$1.5-million to NABI; receives				cost-cutting program	Dec	22	21 33
furniture market	Dec	8	31	warrants to purchase 50% of total out- standing NABI shares	Oct	20	17		Nov Nov	24 24	21
calls for a national position in support of				'Outside' directors are 'in'	Aug	18	57	Fertilizer information to be shared with	Nov	10	27
technology and establishment of a "defin- itive national science policy"	Nov	17	22	plant explosion	Sept	8	16	Formaldehyde process for BIP's plant at			-
Gulf Coast Waste Disposal Authority – will take over Champion Paper treatment				Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31	Oldbury	July	28	15
plant N	Sept	1	43	Terephthalic acid plant at Wilmington,				name			
Gulf Energy & Environmental Systems – nuclear research reactor fuel provides				N.C. planned N Venture-capital activities	Aug	11 28	6 25	Joint venture in Mihara, Japan, to pro- duce ICI's bramoxone weed killer N	Sept	29	27
several times the useful life span of pre-	late.	7	22	Warehouses (two) destroyed by fire near	Later	7	15	'71 profit pickup (table)	Oct	27	51 20
vious fuels	July	,	27	South River, N.J R Hexagon Laboratories – amphetamine	July	,	15	Nylon operations drops 1,450 jobs N Pharmaceuticals plant at Cheshire,	Aug	4	20
perfectly circular and it is this imper- fection that results in heat loss, says				production quotas set by the Justice Dept	Dec	8	14	England, expansion completed R	Sept	29	32
scientists N	July	14	23	Hoechst Fibers - new name for Hystron				Plans manufacturing units in France, Germany and Holland N	Nov	24	43
Gulf Oil Corp. – alkylation unit at its Girard Point, Pa., complex	Dec	8	19	Fibers	Nov	3	17	Plans to raise \$36 million on 8% 15-			
Dorsey: Diversifying, but only in energy				dehyde plant for India	Sept	15	23	Polyester film capacity at Dumfries.	Aug	4	20
and closely related activities	Nov	10	18 17	Hoerner-Waldorf – issues stock for Inter- mountain Co. (table)	July	14	14		July	28	15
Netherlands: Rozemburg order to close				Hollandsche Draad-en Kabelfabriek, N.V				Seven-man-mission to Peking R	Sept	15	21
new ethylene plant appealed N Gulf may have to spend \$1 million to	Aug	25	20	degradable mulch	Dec	8	45	Technology for Russian polyester fiber	July	21	33
lessen noise and optical pollution prob-	C	0	10	purchases, to win a DOD contract N	Oct	27	25	plant	Oct	20	29
Partnership with United Nuclear new	Sept	8	19	Hooker Chemical – acquisition of the evaporator systems business of				U.K. rocked by ICI profit dip, gloomy outlook for industry growth	Dec	8	27
joint venture, Gulf United Nuclear Fuels	lot.	1.4	15	Zaremba	July	7	15	Imperial Chemical Industries of Australia &	Dec	0	21
Corp	July	14	15	Beker Chemical would buy the stock in- terest in Hooker Farm Chemical of				New Zealand - acquires Cresco's nitric			
shut down sparks interest in the country's	0-4	6	0	Taft, Inc.	Nov	24	17	acid and ammonium nitrate units N Consolidated Fertilizers Ltd. see under	July	14	40
Goodrich interests in buying PVC units	Oct	6	9	Closed-circuit TV helps researchers keep up with new technology	Nov	10	71	name			
N Oct 6-9	Dec	1	21	Messing, Morris: He started at bottom -				Sales and earnings for 1971 R Imperial Metal Industries, Ltd. – titanium	Dec	15	32
leads to chemical cutbacks	Aug	25	13	now helps others move up Potassium chlorate plant in India	Sept	1	48	anode for chlorine to be installed at Olin's	0	0.71	07
Shawinigan complex will begin shuttering		1	21	planned	Sept	15	23	Augusta, Ga. plant	Oct	27	37
early next month	Dec	1	21	Trichloroethylene production at Niagara Falls, N.Y. will phase out by				Scotia, expansion contract goes to			
earnings in '71	July	7	14	January	Dec	8	19	Lummus	Sept	8	16
for applying reverse osmosis to the				ceeded by Morris Messing	Sept	1	8	merger into Collins & Aikman Corp.			14
refining of a petrochemical waste stream	Dec	0	42	Hooker Farm Chemicals of Taft, Inc. – Beker Chemical would buy the stock in-				(table)	July	14	14 19
Gulf United Nuclear Fuels Corp formed	Dec	8		terest	Nov	24	17	Indian Farmers Fertiliser Cooperative -			
by Gulf Oil and United Nuclear Gulfport Creosoting Co. — Crown	July	14	15	Houdry Chemical — Delaware okays con- struction of regional waste collection and				contracts for urea plant at Kalol	July	21	29
Zellerbach issues stock (table)	ylut	14	14	treatment system in Deepwater, N.J. , R	Oct	13	29	Indian Head Inc. — glass container producer diversifying into plastics	Dec	15	17
Gwalior Rayon Silk — Caustic soda plant at Nagda, India R	Sept	22	48	Houston Natural Gas — Oasis Pipe Line Co. see under name				Industrial Chemicals Co Managing di-			
ot regue, more	Jopt	22	40	Texas nautural gas pipeline system is being		-		'Mr. Detergent' goes fishing	Nov	24	56
				expanded 333 miles	July	21	13	Industrias Quimicas Du Pont - Chile asks	1404	24	30
н				and gas properties from Allied Chemical				for nationalization of industrial explo-	Nov	3	17
				and Occidental Petroleum R Howard & Sons – phthalate plasticizer	Dec	22	17	sives plant			
Haber Instruments - Electro-Molecular-				units at Cornwall, Ont., expansion R	Dec	1	21	by Monsanto-Resistol S.A. merger N	July	7	9
Propulsion, high-voltage chemical process	Aug	4	34	Howard Paper Mills — Harrison, Ward will set up HPM	Dec	1	18	Infrared Surveys, Inc. — infrared scanning technique	Nov	17	66
Haessle - joint venture to market pharma-				Hudson, John & Co 'Hudson Stream'	Dec	,	10	Inland Container Co — acquisition of Foam-			
ceuticals in Sweden	Oct	20	30	plans to discharge 375,000 tons/year of industrial wastes off English shore have				Lite Plastics Co. (table)	July	14	14
onto corn tassels	Sept	8	37	been delayed by outcries over pollution				duction cut back at Indiana Harbor,			
Halcon Computer Technologies, Inc. – engineering companies are selling com-				Huels AG - sales and earnings in '71 N	July	7	24 40	Inil	Nov	10	13
puter services to outsiders	Sept	8	35	Humble Oil - Baton Rouge, La, refinery				minorit corp supermissies. thermo-			
Haldor Topsoe – ammonia plants with 3,000-tons/day reactors are technically				will add sulfur recovery equipment R Testing customer reaction to a new trade-	Aug	25	16	setting coatings bid for furniture market	Dec	8	31
feasible	Sept	8	40 19	mark, EXXON N	Sept	29	17	Institut Français du Petrole - process to			
Catalysts joint venture R Hall, Howard & Co. – proteins add muscle				Humphrey Chemical — Baytown, Tex. plant will produce corrosion inhibitors				recover Claus unit tail gas licensed to five U.S. firms	Aug	18	88
to toiletries and cosmetics	Aug	4	21	and epoxy resin hardening agent R	Oct	20	23	Institute of Gas Technology - coal gasifi-	riog	10	00
proposed	Dec	8	26	Humphreys & Glasgow – contract for Indian urea plant	July	21	29	cation: pilot plant near Chicago is first to be completed, will make gas within			
Harfluor Corp. — hydrofuoric acid pro- cesses using waste recovered from phos-				Hystron Fibers - changes name to Hoechst		3	17	two months	Oct	27	33
phate fertilizer plants	July	14	34	Fibers	Nov	3	17	Instituto Venezolano de Petroquimica — vinyl chloride plant at El Tablazo plan-			
Harris Paint - N.Y. cites paint for lead content	Dec	15	41	1				ned N Intermountain Co. — Hoerner-Waldorf	Aug	25	20
Harshaw Chemical – hydrofluoric acid				•				issues stock (table)	July	14	14
capacity boost (chart)	July	14	34	INA - petrochemical complex at Rijeka,				International Chemical & Nuclear Corp			
Harvey Aluminum – dividends cut Hatco – plastic film prices N	Sept	21	8	Yugoslavia	Nov	17	35	acquires J. M. Marsam	July	21 15	15 33
Hemijska Industrija Pancevo — Pancevo	July	21	46.1	prices N	Aug	18	73	Panic, Milan: Yugoslav bicycle champ a			
complex planned	Nov	17	35	ITT Levitt – sewage from a new housing development will be processed to drinking				big winner in U.S. drug industry International Commodity Export Corp. —	Dec	22	40
Chemical Products	Sept	29	24	water quality in a new packaged physical-				fertilizer exports ready to end two-year			
Henkel International – technical cooper- ation agreement with Russia N		24	43	chemical waste treatment system N Sewage plant, that looks like a home, will		28	39	slump (charts)	Sept	15	27
Hercoform Marketing - building 50 modu-		24	43	convert development's wastes into an				Celanese Mexicana	Sept	15	23
lar homes in Macon, Ga R Hercules Inc. – AWT Systems Inc. see	Sept	1	10	ash and water of potable standard IVP — Polimeros del Lago see under name	Aug	4	23	International Mergers Service A.G. — multi- national company marriage brokers			
under name				Idemitsu Petrochemical - ethylene plant				formed	Nov	24	13
Attempt to blow up the explosives plant near Kenvil, N.J., thwarted R	Nov	17	24	at Tokuyama will use Kellogg tech- nology	Sept	1	16	International Minerals & Chemical Co. – NHD research	July	21	21
Brown: He's forecasting at least a 20%			-	Ilford — Ciba-Geigy borrowing \$24 million				Potash prices	Dec	22	27
increase in industry profits Brunswick, Ga, naval stores plant:	Oct	27	19	for expansion of its U.K. interests N Ilikon Corp. — "distintegrating bottle"	July	7	40	major and basic products — phosphate			
cleaning up pollution problems	Aug	25	19	that dissolves when empty	July	21	13	and potash" says White	Oct	13	26
Chemical hiring: no pickup in '72 (chart)	Nov	3	20	Technique for injection-blow-molding of bottles by hydroxypropyl cellulose	Dec	8	49	operations cut, an additional 15%, at			
Georgia turns down permament permit for use of coastal Marshlands to dump				Imperial Chemical Industries - acquisition		_		Sudbury, Ont., and Thompson, Man Nickel production in Canada trimmed;	Nov	10	19
excess dirt from Brunswick, Ga.,				of four texturizing companies planned N Aug 11-31	Sept	22	51	copper prices cutN	Dec	1	29
operations	3 July	28	18	Acrylonitrile from propane process N	Oct	20	69	Softness in nickel market causes Inco to cut back	Aug	18	25
How money managers protect compa-				Antidumping duties on fertilizer imports asked	Nov	3	23	International Paint - N.Y. cites paint for			
nies during monetary crises	Nov Oct	17	55 43	Atlas Chemical merger agreement is		28	18	lead contant	Dec	15	41
Montedison and Hercules agree to ex-	. 501	0	40	final	July	7	41	for price hikes	Dec	1	17
change research information on agri- cultural chemicals	R July	28	15	Chemical and fiber companies avoiding strife in Northern Ireland	Sept	8	24	Stock offering will be exchangeable for shares of C.R. Bard	Oct	20	23
				III III III III III III III III I	Sopt	0		anance of O.H. Oold	500	20	20

iconderoga mill doesn't smell: Pollution control to prevent the characteristic kraft-mill odor and treat plant ef-					July Sept	28 29	15 32	Lilly Industrial Coatings — Superfinishes: thermosetting coatings bid for furniture	Dec	0	
fluent	Dec	1	41	Kendall Corp. — Merger proposals	Sept	29	32	Liquichimica Sud - petrochemical com-	Dec	8	,
iconderoga, N.Y. pulp and paper mill to be dedicated	Oct	13	29	Colgate-Palmolive offers stock ex-	Oct	20	23	plex at Calabria, Italy	July	7	
ernational Synthetic Rubber Co. — . BS and carbonoxylated styrene-butadiene	001	,0	20	Merger proposals from Textron and	Nov	3	17	protein technology from Dainippon Ink	Nov	10	
ant	July	28	15	Proposals rejected, but others are	Dec	1	18	Normal paraffins plant in Sicily R Little, Arthur D., Inc. – management	Nov	10	
ck, Sivalls & Bryson see under name tchard, J.F. Co. see under name				likely			,	research consultants team up in two			
color Corp acquisition by Crompton			40	moving parts Kennecott Copper - Chile's nationalization	Dec	8	41		Nov	3	
tex Gas — Texas natural gas pipeline	Aug	4	12	of U.S. copper operations: how much will Chile pay?	July	21	15	Plastic recycling study Project Threshold: 3-year, \$2-million in-	July	28	
tem is being expanded 333 miles nta – process for Turkish caprolactam	July	21	13	Washington takes dim view of Chile's decision not to compensate com-				dustry-financed study launched to find ways to assure accuracy of air pollu-			
nt	Sept Sept	15	16 23	pany N Copper outlook dull	Oct	20	17 18	tion measurements	Sept	15	
siones ABS - Productora de gas bonica see under name				Mining and concentrating operations at Salt Lake City will be reduced	Nov	3	18	may not be built N	Nov	17	
Manufacturing – merger with ytheon okayed	Dec	22	17	Petition asking reconsideration of a com- mission order requiring sale of the com-	1404	3	10	Lonza - metaldehyde tries to slow snail's	July	7	
Steel and Iron - Raytheon and Iowa				pany's Peabady Coal unit turned				PVC plant in Denmark R	Nov July	24 28	
nufacturing merger okayed R I Central Trade & Investment Co. –	Dec	22	17	Wrangle with Puerto Rico over copper	July	14	16	Louisville Chemical — maleic hydrazide dispute with Uniroyal: will the statute of			
ael Chemical Fibers see under name Il Chemical Fibers – acrylic fiber				mining terms	Oct	27	17	limitations bolster Uniroyal's position? . N Luminescence Technology — new luminescent	Oct	27	
pacity to be doubled	Sept	15	24	rehearing on Kern stock case R Kerr-McGee Chemical — agreement with	Dec	8	19	fibers tackle optical, high-performance	Oct	13	
Mexico	Oct	27	19	OCAW includes wage hike	Aug	25	16	Lummus Co. — British subsidiary gets con- tract for Chilean petrochemical com-	OCI	10	
would be reduced by an economic re-	Nov	24	17	stopped at Henderson, Nev N	July	14	33	piexN	Sept	15	
chnology for Algerian petrochemical				Titanium dioxide and parathion prices . N Kimberly-Clark — issues stock for Brown-	Nov	10	61		July	21	
complexN	Oct	20	31	Bridge Mill (table)	July	14	14	Contract for Brooklyn Union Gas plant to convert naphtha into natural			
J				slurry pipelines have a big future in Australia	Nov	17	65	gas	Aug	25	
n Gasoline - Boston Gas' SNG plant				Klean-Strip Co. – paint remover sales Kobe Steel – acrylic fiber joint venture in	Oct	20	65	puter services to outsiders Pipeline-gas-from-natural-liquids plant for	Sept	8	
Il employ methane-rich gas process . N in Synthetic Rubber – technology for	Oct	27	37	Mexico	Oct	27	19	Alonquin SNG N Oct 20-69 N	Oct	27	
IlC's plants	Sept	22	48	Remover sales	Oct	20	65	Pres. Orr says some \$400 billion must be invested over the next 15 years to			
Il use Japanese process	Aug	4	19	Koppers Cr., — agreement with OCAW includes wage hike	Aug	25	16	satisfy the anticipated U.S. energy requirement	Sept	22	
erson Chemical Co., Inc. – three-for- e ammonia parley	Aug	4	32	Coal strike agreement will lead to higher prices	Nov	24	16	SNG plant at Marysville, Mich, plan- ned	Sept	1	
letter	Oct	6	5	Interdisciplinary research (table) Krebs & Co. — chlor-alkali plant for	Aug	25	43	Technology and engineering for Finnish projects	Aug	4	
quiring 30% interest (table)	July	14	14	India	Sept	15	24	Lummus Co, Canada Ltd. — contract for expansion of Imperial Oil's refinery at			
Inditures	Aug	11	10	acquire 50% interest	Oct	20	30	Dartmouth, Nova Scotia	Sept	8	
later							22				
- letter	Sept	29	15	process licensed to PPG N	Oct	27	37	gen plant at Pointe-Aux Trembles R	Sept	15	
- letter	Sept	29 17	15 35	process licensed to PPG N Vinylon plant for North Korea N Kymin — chlorine and phthalic anhydride	Sept	27 22	51	gen plant at Pointe-Aux Trembles R Lurgi – West German contracts can- celed N		15	
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- letter - letter - Disperzia - PV acetate dispersion int venture at Koper ovinii - petrochemical complex at ijeka, Yugoslavia - VC plant at Kastel Sucurac, Yugoslavia - N K - Report -	Nov Nov July	17 17 28	35 35 29	process licensed to PPG N Vinylon plant for North Korea N Vinylon plant for North Korea N Kymin — chlorine and phthalic anhydride plants planned as Finns take petrochemical plunge (table)	Sept	22	51	gen plant at Pointe-Aux Trembles R Lurgi – West German contracts can- celed N Madras Fertilizers – Manaii units on- stream	Dec	21	
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letter Disperzia – PV acetate dispersion int venture at Koper winil – petrochemical complex at jeks, Yugoslavia K jeks, Yugoslavia K Z – granted an \$8-million loan for exnision N seer Aluminum & Chemical Corp. – lecters devised for runways	Nov Nov July	17 17 28	35 35 29	process licensed to PPG N N Vinylon plant for North Korea N N Vinylon plant for North Korea N Kymin — chlorine and phthalic anhydride plants planned as Firns take petrochemical plunge (table) La Companie des Eaux et de l'Ozone — Crane obstains license to the Otto plattype generator L'Air Liquide — acquires a 50% interest	Sept	22	51	gen plant at Pointe-Aux Trembles R Lurgi – West German contracts can- celed N Madras Fertilizers – Manali units on- stream Magma Copper Corp. – copper pacts coming Maine Clean Fuels, Inc. – Maine envi- ronmentalists defeat proposed de- suffurization project	Dec	21	
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Hetter Disperzia – PV acetate dispersion int venture at Koper winil – petrochemical complex at jeka, Yugoslavia . Z – granted an \$8-million loan for ex- insion K Z – granted an \$8-million loan for ex- insion N Exercise device for runways Length of the state of the state of the state Length of the state of the state Length of the state of the state Length of the st	Nov Nov July Sept Nov July Aug Nov Sept Aug Sept Nov I Dec I Aug Nov I Sept I Aug I July July July July	17 17 28 29 24 14 14 25 17 22 11 15 3 21 6 15 11 24 8 4	36 35 29 27 29 15 34 16 24 48 40 23 17 35 12 22 6 36 40 12	process licensed to PPG N Vinylon plant for North Korea N Kymin — chlorine and phthalic anhydride plants planned as Firns take petrochemical plunge (table) L La Companie des Eaux et de l'Ozone — Crane obstains license to the Otto plate- type generator L'Air Liquide — acquires a 50% interest in AGA Gas; Deutsche L'Air Liquide Edelgas will, in turn, become a sub- sidiary of AGA Gas Joins Rotterdan-Antwerp pipeline com- plex N Profit report Lambeg Industrial Assn. — Robinson, Eric, develops manganese-based catalyst to control auto exhaust pollutants N N He/ Bayer Pharma Jugostavija pint venture L Reflage's Ltd. — wood stains business bough from Monsanto . Leslie Salt a Leslie Foods Div.: Sweden's consumer ombudsman rules that contents given in ounces, rather than grams, in an odd-shaped bottle might be misleading . Nagotiating to self the assets of its Leslie Salt & Chemical Div. and its Food Div. to California Hawaiian Sugar; lands in Salta in Supar self of Mobil Oil Estates Salt & Chemical Div. and its Food Div. To California Hawaiian Sugar; lands in Salta in Supar self of the Salta Sal	Nov Sept Dec Nov Sept T Dec Sept Dec Sept Dec July Nov	22 4 3 15 1 3 8 15 1 1 1 3 15 2 1 3 3 15 2 1 3 3 3 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1	51 117 55 23 29 17 40 24 21 45 18 23 27 13 21	gen plant at Pointe-Aux Trembles . R Lurgi – West German contracts can- celed	July July Aug Nov Nov Nov July Aug July July July July July July July July	21 28 4 14 11 3 17 21 11 26 29 21 7	
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- letter - l	Nov Nov July Sept Nov July Aug Nov Sept Aug Sept Nov July July I Sept I Aug I Sept I July July July July July July July July	17 17 28 29 24 14 14 25 17 22 11 15 3 21 6 15 11 24 8 4	36 35 29 27 29 15 34 16 24 48 40 23 17 35 12 22 6 35 40 12 27 29 44 9	process licensed to PPG NY Vinylon plant for North Korea NY Vinylon plant for North Vinylong Plant for North Vinylong Plant for North Vinylong Plant for North Vinylong Vin	Nov Sept Dec Nov Sept T Dec Nov Sept L Dec Sept Dec Nov Sept Dec Nov Sept Dec Nov Sept Sept Dec Nov Sept Dec Nov Sept Dec Nov Sept Dec Nov Sept Dec Dec July Nov Nov Nov	22 4 3 15 1 3 8 15 1 1 15 1 1 3 15 21 3 3 15 21 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	51 17 55 23 29 17 40 24 21 45 18 23 27 13 21 22	gen plant at Pointe-Aux Trembles . R Lurgi – West German contracts can- celed	July July Aug Nov Nov Aug July Aug July Aug July July July July July Oct July Oct	21 28 4 14 11 21 11 26 29 21 7 14 20 21 28	

McKee, Arthur G. & Co. — contract for Monsanto Argentina's \$2-million expansion	Nov	24	21	Mitsubishi Rayon — joins Mitsubishi Petro- chemical to form new marketing arm; Dia Acrylate for acrylic acid ester output , R	Sept	15	24	Monsanto Canada — wood adhesives oper- ations sold to Westport Chemicals, and wood stains business to LePage's Ltd R	Dec	1	21
Engineering companies are selling com- puter services to outsiders	Sept	8	35	Monsanto joint venture hopes to crack	July	14	40	Monsanto Europe — reorganizing into four operating companies		22	21
Mead Paper — joint plastic paper venture Acroline Co. formed N		17	17	Mitsui & Co, — electrolytic manganese dioxide plant at Cork, Ireland con-	July		40	Monsanto Mexicana — Latin American executives seek exemption from Nixon's	500	22	21
Medipharm – end-processing and packaging units acquired by Albert Pharma R	Dec	8	28	sidered N Epoxy resin plant at Chiba Works R	Nov Nov	10	27 17	import surcharge N Resistol S. A. merger will create Mexico's	Sept	15	21
Melamina Ultra — melamine plant in Brazil		15	24	Iran petrochemical complex planned , N Will build down-stream petrochemical	Aug	4	20	third largest chemical company, Indus- trias Resistol S.A. (IRSA) N	July	7	9
Melamine Chemicals - Baton Rouge workers laid off during construction slowdown	Jopt	10	2.4	plants in Iran, joint venture with NIPC	Oct	27	19	Monsanto Textiles Ltd. – Ireland acrylic fibers plant expansion delayed R		4	19
band together to win contract mainten-	Cont	1	42	Mitsui Petrochemical Industries – dimethyl terephthalate plant and terephthalic acid	001			Montecatini-Edison — acquires control of Carlo Erba		1	21
ance jobs away from AFL-CIO Melle-Bezon Rhone-Poulenc will in-	Sept .	,	42		Dec	8	28	Acquires full ownership of Rhodiatoce and Farmitalia from Rhone-Poulenc;	000		21
crease holdings in Soc, Melle-Bezon, transfer assets to Glucides & Derives,				use Hoechst technology R	Nov	3	17	will integrate Rhodiatoce, Polymer	Dec.	22	19
which will be renamed Melle-Bezon R Mennen Co. – Protein 21 shampoo:	Oct	20	30	Japan gives approval for synthetic wood pulp plant at Chiba Works R Mitsui Toatsu Chemicals – plans to seek	Nov	3	17	and Chatillon	July	28 21	15 29
Proteins add muscle to toiletries and cosmetics	Aug	4	21	union agreement to make personnel	Oct	27	43	Cefis pinpoints his problems Chatillon see under name EPDM capacity to be tripled	July	24	
Merck & Co. – dividends in doubt Knoppers' praise for multi-national	Oct	20	23	Process for VCM for Rumania R		4	19	Financial accounts have been turned over	Nov	24	27
corporations' boosting dollar inflow Roehm, Luther, at MCA meeting	Nov Dec	17	22 16	Mobay Chemical — Bayer's top U.S., division	Dec	8	18	to the district attorney of Milan, fol- lowing charges that the company had a	Lake	7	20
Sales and earnings — third-quarter '71 . N Merichem — cresylic acid capacity	Oct	20	17	Naftone, Inc. is now a division R Nitric acid unit at New Martinsville,	July		16	"secret set of books" N Hercules and M-E agree to exchange re-	July	/	39
upped	Oct	13	29	W. Va., explosion		17	24	search information on agricultural chemicals	July	28	15
injection-molded acetal	July	21	45	plant contract includes wage hike Superfinishes: thermosetting coatings	Aug	25	16	'71 profits slide (table) Novamont Corp. see under name	Oct	27	51
plier of metal anodes for chlor-alkali production N	Dec	15	59	bid for furniture market	Dec Sept	22	31 22	Phenthoate, DDT substitute Polypropylene: key composition-of-	Aug	4	36
Near-term future not bright N Metalbox Co. – Green, J. discusses aerosol	Dec	22	31	Delaware okays construction of regional waste collection and treatment system				matter patent won by Montedison but 13-year-old controversy still not set-			
production Metanor-Metanol do Nordeste – Methanol	Oct	20	66	in Deepwater, NJ		13	29	tled N PVC plant at Kastel Sucurac, Yugoslavia	Dec	15	39
plant at Camacari, Bahia, contract to Power-Gas	Dec	8	26	OCAW may bring action against MO in	Aug	11	10	N July 28-29	Nov	17	35 39
Meyercord Co. — decal system, Roll-Mark, will boost consumption of decorated				job safety dispute	Dec Sept	8	19 16	TE, new tetrafluoroethylene-ethylene	Aug	18	31
ceramic tile	Aug	25 14	51 17	Tavoulareas: Betting on refining, pack- aging, chemical coatings	Nov	24	19	copolymer N Valerio, G. charged with misappropriating	Aug	11	39
Midwest Oil - Standard Oil (Indiana) may acquire company and merge it with				Mobil Oil Estates, Ltd San Francisco Bay area land will be bought from				Company funds	Dec	15	32
Amoco	Aug	4	12	Leslie Salt		1	18	for lead content	Dec	15	41
on merger	Aug	25	9	detasseling problem	Sept	8	37	pultruded plastics for construction N Morton Salt – de-icer markets	Dec Nov	8	29 31
for using "misleading scheme" to take control of Midwest	Oct	6	15	with Kawecki Berylco Industries ,	Oct	6 15	12	Mountain States Resources – Utah reserves low in sulfur content N	Sept	29	51
Standard plans to offer stock ex- change	Dec	22	17	Monsanto Co. – ABS: Lustran ABS plastic at Addyston, O., expansion; plant at				Muller, Joseph Corp. — alleged monopoly in transatlantic shipping is crux of U.S. suit			
Mietfinanz – joint venture with Hoechst, Miet-Textil, will rent industrial clothes . N		21	35	ABS expansions at Addyston, O, and in	Sept	1	5	with foreign firms	Dec	22	16
Milchem – acquired by Baker Oil Tools . R Millhaven Fibres Ltd. – CIL sells interest	July	14	16	Japan and Belgium (table)	Oct Aug	20 25	23 39	plant in Canada	July	28	15
to Chemcell and Fiber Industries Millmaster Onyx Corp. — Milano, Robert,	July	7	41	Chemical and fiber companies avoiding strife in Northern Ireland	Sept	8	24	transatlantic shipping is crux of U.S. suit with foreign firms	Dec	22	16
chairman and chief executive officer: He'll take a hard look at his hometown .	Aug	11	44	Coal strike forces curtailment of acrilan fiber production at Decatur, Ala N	Nov	10	13	Murphy Oil — Meraux, La. and Superior, Wisc, refineries expansion R	Aug	25	16
Milano, Robert receives SAACI's first Man-of-the-Year award	Oct	13	25	Computer programs available for license . Corporate management reshuffle will aid	Sept	8	35			-	
Mine Safety Appliances – pollution control equipment at Chemshow	Dec	8	41	diversification and growth Cunningham, C.P. managing director of	Sept	29	24	N			
Minera Bayovar — Kaiser will give up its 80% interest		22	48	Industrial Chemicals Co.: On week- ends 'Mr, Detergent' goes fishing	Nov	24	56	NL Industries – antimony prices N Titanium dioxide and parathion	July	21	41
3M Co. — High-energy magnetic tapes sound off		7	36	De-icers devised for runways	Nov	24	29	prices	Nov	10	61
Ling, J.T. says industry is taking a bad rap on pollution	Aug	4	24	waste collection and treatment system in Deepwater, N.J	Oct	13	29	Mobay Chemicals	July	14	16
Newark, N.J. explosion caused by the ignition of vapors from cleaning solu-	Aug	-	27	Depreciating method for machinery and equipment being changed N	Dec	15	17	chairman and chief executive officer: He feels that ethics are as vital to a			
tions	Aug	4	11	Enviro-Chem Systems see under name Florida formulates tough rules to control				company as profits	Aug	4 21	40 15
contract	Sept	22	24	Escambia Bay discharges	Nov	10	18	Naptachimie – ethylene oxide capacity at Lavera upped	July	21	39
to spur sagging growth (chart)		18	67	pational safety Israel Chemical Fibers see under name	Dec	1	16	National Distillers and Chemical — U.S. Industrical Chemicals Co. division see	July	2.	00
Tartan synthetic turf: tussle over turf Missouri Pacific – VCM tank cars explode	Oct	13	24	Japanese joint plastics venture N Japanese nylon joint venture N	July	14 14	40	under name			
as 18 cars of freight train derail in Houston	Oct	27	20	Kerley, James, vice-president: What chemical makers want after the freeze	Sept	15	15	U.S.I. Europe see under name U.S.I. Far East see under name			
Mr. Gasket Co. — Grace offers up to \$17 million for MGC, auto-parts maker	July	14	14	Listed on the Belgian stock exchange , N NFLAP calls for "moratorium" on		7	40	National Gas Pipeline — two-year contracts with Phillips and Warren (and reportedly Mobil) under which NGP will pay as			
Mitsubishi Chemical Industries - Monsanto joint venture hopes to crack the				artificial turf; company says demands	Oct	12	24	much 4,9 t/gal, for ethane and 65 t/gal.	Cont	22	50
Japanese nylon market N Niva, M., at NAM discusses R&D in	July	14	40	will not affect sales of its AstroTurf Nylon prices move up	Oct	13 4 7	24	for propane	Sept	22	59
Japan	Nov	17	22	Oil and gas business (table) 'Outside' directors are 'in' Patent Office reverses a '67 decision that	July	18	12 57	tion to spur sales and earnings in the next five years	Aug	18	27
July 31	Oct	6	19	awarded priority to Monsanto on use				National Iranian Oil Co. — joint explora- tion vanture off shore of Iran R Petrochemical complex planned N	Aug	11	10 20
liquefaction unit in the Malaysia-Borneo area	Aug	18	31	of 3, 4-dichloropropionanilide as a se- lective postemergence herbicide and	Lutin	28	18	National Iranian Petrochemical Co. — Mitsui will build down-stream petrochem-	Aug	4	20
Mitsubishi Heavy Industries - Japan will be using locally developed know-how in				awarded priority to Rohm & Haas . R Process for making cellulosic materials			47	ical plant in Iran	Oct	27	19
several years Mitsubishi Kakoki Kaisha — methanol	Dec	1	21	fire retardant	Aug	25	4/	Polymers see under name National Starch & Chemical — Polin-8 may			
plant at Camacari, Bahia	Dec	8	26	relating to development and manu- facture of protein beverage prod-		07	01	solve the corn detasseling problem	Sept	8	37 53
process is economical, pollution-free . N Mitsubishi Monsanto Chemical — ABS ex-	Nov	24	33	Rubber chemicals plant at Antwerp,		27	21	Snack-food business a boom for starches, National Steel – merger with Granite City	Nov	17	53
pansion at Yokkaichi plant	Sept	1	5	Belgium completed	July	28	18	Steel: Justice may ease up on anti- trust enforcement	July	21	9
using locally developed know-how in several years	Dec	1	21	million in Swiss francs to help finance the parent company's \$60-million				Naval Jelly Co. — protein powder for mending rips and holes in clothing			
Joins Mitsubishi Rayon to form new marketing arm; Dia Acrylate for			-	Western European expansion pro- gram	July	14	40	upholstery and rugs is a new twist in chemical "sewing"	Sept	22	61
acrylic acid ester output F Refinery-petrochemical complex in	Sept	15	24	Turbine engines catch on in trucks and autos, could boost demand for syn-	Oct	27	27	increases urea and ammonia capacity . F Neste — spearheading Finland's entry into	Dec	22	21
Ireland planned	Nov A Aug	10	27 31	thetic lubricants	000	21	21	the petrochemicals arena (table) Newman, George & Co. — acquisition of	Aug	4	17
Wood' from plastic?	Aug	25	44	pansion	R Nov	24	21	Du Pont's Corfam inventory	Oct	27	29

No											
Newport Chemical — acquisition of Vel- Cord Southern	July	7	15	Olsen Engineering — licenses process to recover Claus unit tail gas N	Aug	18	88	Parke-Davis — Warner-Lambert acquisition: FTC is still seeking to block merger N	July	7	9
Nicolon N,V, — propylene seaweed pre- vents shore erosion, may provide breed-				Olson Farms — Dolco Packaging see under name				Request for order to restrain FTC from	July	21	15
ing area for marine life	July	14	37	Omega Chemical Co salesmen wear				Parsons, Ralph M. Co licenses process			
Nihon Exlan — acrylic fibers licensing agreement	Aug	4	19	skirts: company finds all-women sales force outperforms men, helps double				to recover Claus unit tail gas N Process produces super sulfur recovery	Aug	18	88
Nippon Kokan Seishi — studying European synthetic paper market prospects R	Nov	3	17	sales of chemical specialties within a	Sept	1	35	from refinery waste gases N	Sept	22	73
Nippon-Ketjen — desulfurization catalysts				Orbitex Inc Nomex as boat-building				Technology for sulfuric acid plant on Hokkaido island	July	14	26
plant at Niihama, Japan R Nippon Kokan – two phosphoric acid	July	28	15	material	July	21	46	Patterson-Sargent — N.Y. cites paint for lead content	Dec	15	41
processes	Sept	22	67	some production	Sept	1	8	Pazchem – Israel's pesticides industry banks heavily on know-how and export			
for Petkim	Sept	1	16	PVC unit at Skopje, Yugoslavia N July				sales	July	14	43
at Arklow (Wicklow), Ireland				28-29	Nov	17	35	Peabody Coal — Kennecott petition asking reconsideration of a commission order			
expansion	Sept	8	22	peel extract sweetener research Oriental Chemical Fiber — polyester	July	21	22	requiring sale of company's PC unit	July	14	16
hyde resins plants; Finns take petro-				filament plant to be built in Taiwan . R	July	7	45	turned down			
chemical plunge (table)	Aug	4	17	Ormet Burnside, La, plant labor agreement	July	21	15	trol systems at Chemshow Pechiney – graphite electrode plant near	Dec	8	41
Hercules agrees to guarantee five-year loan of \$1.5-million; receives warrants				Osage Chemical — ethylene plant planned				Liege, Belgium, joint venture R	Sept	15	24
to purchase 50% of outstanding shares				at Beaumont, Tex N Gulf Coast ethylene plant may not be	Aug	4	6	Pechiney-St, Gobain — Denmark's first PVC plant	July	28	15
of NABI N North American Coal — coal strike agree-	Oct	20	17	built N Osaka Petrochemical Industries — ethylene	Nov	17	17	Merger with Progil to form Rhone- Progil	Sept	1	16
ment will lead to higher prices North American Royalties – oil and gas	Nov	24	16	for alcohol plant	Oct	20	30	PVC unit at Skopje, Yugoslavia N July		17	35
joint exploration program on the Gulf				Overmyer, D.H. Co. — management research consultants team up in two new ventures				28-29 Rhone-Poulenc will increase its ownership	Nov	17	35
Coast	Sept	1	10	to offer managed warehouses Overmyer/DAL — formed to conduct R&D	Nov	3	49	in P-SG by acquiring the 39,11% interest now held by Saint Gobain-Pont-a-			
facility in Tasmania R	Sept	15	24	of physical distribution programs	Nov	3	49	Mousson	July	7	39
Northern Illinois Gas — asks for permission to reduce service for nearly 200				Overmyer Distribution Services — manage- ment research consultants team up in two				Soc. Polimeros de Mexico see under name Pekema — Finland takes petrochemical			
industrial "off-peak" customers and totally eliminate service next year N	Sept	1	43	new ventures to offer managed ware- houses	Nov	3	49	plunge (table)	Aug	4	17
Northern Petrochemical — ethylene oxide	COPT			Overseas Private Investment Corp. — will	1101		40	Thorofare, N.J., brings total U.S. capacity			
and glycol plant at Joliet, III. shut by explosion in heat exchanger N	Nov	24	23	provide insurance for U.S. investors in Yugoslavia against seizure of				for fluorinated hydrocarbons to nearly 1 billion lbs./year	July	14	15
Ethylene plant at Joliet, III. begins operation N	Oct	6	15	Owens-Corning Fiberglas — Tenneco Oil	Nov	17	35	Fungicide sales	Sept	8	37
Slatin, A., underscores the progress				ships calcined colemanite N Aug 11-	D	15	00	kind of corporate tax relief N	Aug	18	18
plastic "paper" is making, at plastic show	Nov	10	19	Owens-Illinois - Detroit's program to	Dec	15	22	Pennsylvania's top CPI firms threaten to seek greener tax pastures	Sept	29	39
Northwest Industries — sales and earnings — third-quarter estimated	Oct	13	28	recycle glass containers may be stymied	Aug	11	10	Wyandotte, Mich, families file joint air pollution suit	Aug	4	10
Northwest Paper - pulp mill expansion				Oxirane Chemical — propylene oxide plant	Aug		10	Pentagon Chemical & Paint - N.Y. cites			
plans for Cloquet, Minn, plant being trimmed	July	21	15	at Bayport, Tex., will be back onstream by the end of Aug.; cause of the blast				paint for lead content	Dec	15	41
Norton Co Perks, Wm. financial vice- president: What chemical makers want				not yet revealed	July Sept	7 22	33 24	Perma-Pure Process Co. — device contin-	July	14	20
after the freeze	Sept	15	15	Oxirane Chemie — steam from Air Products				uously removes water vapor from an air	Des	0	43
Novamont Corp. – sales and earnings 1970 N	Aug	11	6	plant	Aug	4	19	stream		8	
Nuclear Materials & Equipment Corp. — acquired by Babcock & Wilcox R	Nov	10	20	P				Perry Equipment — acquisition of mach-	Dec	1	21
Atlantic Richfield phasing out operations								inery and equipment from the cellulose			
at Apollo, Pa	Sept	1	10	PE Devotopment Co. — engineering com- panies are selling computer services to				flake section of Celanese's Cumberland plant	Oct	27	21
tract sweetener research	July	21	22	outsiders	Sept	8	35	Pertamina — cryogenic nitrogen plant at Puldja, Indonesia	Sept	15	24
0				fabrication operations at Crestline, O.,		0	40	Peterson Puritan Inc. — Peterson, H. on			66
OKI - petrochemical complex at Rijeka,				expansion	Nov	13	19 22	aerosols		20	
Yugoslavia	Nov	17	35	Calcium hypochlorite and calcium chloride prices N	Dec	22	27	Petrocarbon Developments — Polish con-	Sept	1	16
pipeline in '72 to transport natural	Nov	24	10	Caustic soda prices going up	Dec	8	17	tracts	Aug	4	19
Gas	Nov	24	19	De-icer markets	Nov	24	31	Petrochemical Investment Corp. — Houston polystyrene plant capacity expansion . R	Oct	6	15
to spin off its DAP business to Beker Chemical; Becker would buy stock in-				"warms itself, muffles unwanted sound, insulates against cold and heat,				Petrocokes Ltd. – electrode- and steel- grade coke plant at Mizushima ex-			
terest in Hooker Farm Chemicals of				screens out solar glare" R				pansion			
Taft, Inc	Nov	24		screens out solar glare	Sept	29	24	Deta-61	Sept	1	16
Hooker Chemical see under name		22	17 17	Glass fibers plant at Lexington, N.C., expansion	Sept	28	18	Petrofina — petrochemical research efforts to be pooled with ELF-Erap and			
Houston Oil & Minorale purchases oil and				Glass fibers plant at Lexington, N.C., expansion	July Dec	28 15	18 41	to be pooled with ELF-Erap and		1 15	33
Houston Oil & Minerals purchases oil and gas properties	Dec			Glass fibers plant at Lexington, N.C., expansion	July	28	18	to be pooled with ELF-Erap and AGIP	R Dec	15	33
Houston Oil & Minerals purchases oil and gas properties		22	17	Glass fibers plant at Lexington, N.C., expansion R. N.Y. cites paint for lead content Newton, Wilbert, at MCA meeting Paint remover sales Potassium azide may become an important agriculturial chemical and also	July Dec Dec	28 15 1	18 41 16	to be pooled with ELF-Erap and AGIP	R Dec		
Houston Oil & Minerals purchases oil and gas properties, R L.A, court refuses rehearing on Kern stock case	Dec	22	17 17 19	Glass fibers plant at Lexington, N.C., expension . R N.Y. cites paint for lead content . Newton, Wilbert, at McA meeting . Paint remover sales . Potassium azide may become an important agricultural chemical and also reduce nitrate pollution of ground	July Dec Dec Oct	28 15 1 20	18 41 16 65	to be pooled with ELF-Erap and AGIP	R Dec	15 15	33
Houston Oil & Minerals purchases oil and gas properties	Dec Dec Sept	22 22 8 1	17 17 19 48	Glass fibers plant at Lexington, N.C., expension . R N.Y. cites paint for lead content . Newton, Wilbert, at McA meeting . Paint remover sales Potassium azide may become an important agricultural chemical and also reduce nitrate pollution of ground water and streams . N Propylene glycol: licenses process from	July Dec Dec	28 15 1	18 41 16	to be pooled with ELF-Erap and AGIP Retrofina of Canada – hydrogen plant at Pointe aux Trembles contract goes to Lummus . Metal powder operation at Pointe aux Trembles, Que, will be temporarily closed . Petrolose Mexicanos – building new plants	R Sept	15 15 13	33 24 57
Houston Oil & Minerals purchases oil and gas properties	Dec	22	17 17 19	Glass fibers plant at Lexington, N.C., expension . R N.Y. cites paint for lead content . Newton, Wilbert, at MCA meeting . Paint remover sales . Potassium azied may become an important agricultural chemical and also reduce nitrate pollution of ground water and streams . N	July Dec Dec Oct	28 15 1 20	18 41 16 65	to be pooled with ELF-Erap and AGIP Petrofins of Canada – hydrogen plant at Pointe aux Trembles contract goes to Lummus	R Dec R Sept	15 15	33 24
Houston Oil & Minerals purchases oil and gas properties. A R L.A. court refuses rehearing on Kern stock case. R Messing, Morris: He started at bottom—new helps others move up. Sales and earnings, first-half '71' Aug 25-14 Willers, Thomas resigns; will be succeeded by Morris Messing	Dec Dec Sept	22 22 8 1	17 17 19 48	Glass fibers plant at Lexington, N.C., expension	July Dec Dec Oct	28 15 1 20	18 41 16 65	to be pooled with ELF-Erap and AGIP	R Sept N Oct July Dec	15 15 13	33 24 57
Houston Oil & Minerals purchases oil and gas properties. R. L.A. court refuses rehearing on Kern stock case. R. Messing, Morris: He started at bottom—new helps others more up. Sales and earnings, first-half '71 Aug 25-14 Willers, Thomas resigns; will be succeeded by Morris Messing. Oesterreichische Mineraloel Verwattung—merger of the petrochemical divisions of	Dec Dec Sept Sept Sept	22 22 8 1 8	17 17 19 48 16 8	Glass fibers plant at Lexington, N.C., expension	July Dec Dec Oct	28 15 1 20	18 41 16 65 69	to be pooled with ELF-Erap and AGIP Petrofina of Canada — hydrogen plant at Pointe aux Trembles contract goes to Lummus Tembles, Que, will be temporarily closed Petroleos Mexicanos — building new plants to help improve its export picture Petromar, S.A. — alleged monopoly in transatlantic shipping is crux of U.S. suit with foreign firms Petronol — infrared scanning technique	R Sept N Oct July Dec	15 15 13 7	33 24 57 44
Houston Oil & Minerals purchases oil and gas properties. R L.A. court refuses rehearing on Kern stock case	Dec Dec Sept Sept	22 8 1 8	17 17 19 48 16	Glass fibers plant at Lexington, N.C., expension	July Dec Dec Oct	28 15 1 20	18 41 16 65	to be pooled with ELF-Erap and AGIP	R Sept N Oct July Dec	15 15 13 7	33 24 57 44
Houston Oil & Minerals purchases oil and gas properties. R L.A. court refuses rehearing on Kern stock case. R Messing, Morris: He started at bottom — new helps others move up Sales and earnings, first-half 71 Aug 25-14 Willers, Thomas resigns; will be succeeded by Morris Messing Oesterreichische Mineraloel Verwaltung — merger of the petrochemical divisions of OMV and OSW set Oesterreichische Stickstoffwerke — merger of the petrochemical divisions of OMV and OSW set	Dec Dec Sept Sept Sept	22 8 1 8 1	17 17 19 48 16 8	Glass fibers plant at Lexington, N.C., expension	July Dec Dec Oct Oct	28 15 1 20 20 27 22 21	18 41 16 65 69 37 17 39	to be pooled with ELF-Erap and AGIP Petrofins of Canada – hydrogen plant at Pointe aux Trembles contract goes to Lumnus Metal powder operation at Pointe aux Trembles, Que, will be temporarily closed . N Petroleos Mexicanos – building new plants to help improve its export picture Petromar, S.A. – alleged monopoly in transatiantic shipping is crux of U.S. suit with foreign firms Petronol – infrared scanning technique — Petropinica Bahia Blanca – set up to take over construction of ethylene-based complex proposed 3½ years ago	R Dec R Sept N Oct July Dec Nov	15 15 13 7 22 17	33 24 57 44 16 66
Houston Oil & Minerals purchases oil and gas properties. R L.A. court refuses rehearing on Kern stock case. R Messing, Morris: He started at bottom—new helps others move up. Sales and earnings, first-half '71 Aug 25-14 Willers, Thomas resigns; will be succeeded by Morris Messing Oesterreichische Mineraloel Verwaltung—merger of the petrochemical divisions of OMV and OSW set Oesterreichische Stickstoffwerke—merger of the petrochemical divisions of OMV and OSW set Old Ben Coal Co,—coal price hike out.	Dec Dec Sept Sept Sept	22 22 8 1 8	17 17 19 48 16 8	Glass fibers plant at Lexington, N.C., expension	July Dec Dec Oct Oct	28 15 1 20 20 27 22	18 41 16 65 69 37	to be pooled with ELF-Erap and AGIP Petrofins of Canada – hydrogen plant at Pointe aux Trembles contract goes to Lumnus Metal powder operation at Pointe aux Trembles, Que, will be temporarily closed	R Dec R Sept N Oct July Dec Nov	15 15 13 7	33 24 57 44
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Houston Oil & Minerals purchases oil and gas properties. R. L.A. court refuses rehearing on Kern stock case. R. Messing, Morris: He started at bottom — new helps others move up. Sales and earnings, first-half '71 Aug 25-14. Willers, Thomas resigns; will be succeeded by Morris Messing	Dec Dec Sept Sept Sept Sept Dec Dec Dec Dec	22 8 1 8 1 29 29 8 1 15	17 17 19 48 16 8 32 32 20 16 22 41	Glass fibers plant at Lexington, N.C., expension	July Dec Dec Oct Oct Oct Dec July July Oct Sept Nov	28 15 1 20 20 20 27 22 21 14 13 22 3 8 7	18 41 16 65 69 69 37 17 39 15 28 74 51 17 9	to be pooled with ELF-Erap and AGIP Petrofina of Canada — hydrogen plant at Pointe aux Trembles contract goes to Lummus Metal powder operation at Pointe aux Trembles, Que, will be temporarily closed Petroleos Mexicanos — building new plants to help improve its export picture — Petromar, S.A. — alleged monopoly in transatiantic shipping is crux of U.S. suit with foreign firms — Petroquimica Bahia Blanca — set up to take over construction of ethylene-based complex proposed 354 years ago by Dow Chemical — Lummus British subsidiary gets control to design and complex at Concepcion — concentration of the petroquimica Chemical Mosconi — receives bids for construction of aromatics complex at Concepcion — Petro-Tex — butadiene markets — Petrification system in the main butadiene unit at Houston plant demaged by fire and explosion — Pitzer Inc. — Antiobiotic production resident from Groton, Conn. plant: company many many many many many many many m	R Dec R Sept N Oct July Dec Nov N Nov N Sept N Nov	15 15 13 7 22 17 17 17	33 24 57 44 16 66 31 21 31 41
Houston Oil & Minerals purchases oil and gas properties. R L.A. court refuses rehearing on Kern stock case. R Messing, Morris: He started at bottom — new helps others move up. Sales and earnings, first-half '71 Aug 25-14 Willers, Thomas resigns; will be succeeded by Morris Messing Oesterreichische Mineraloel Verwaltung — merger of the petrochemical divisions of OMV and OSW set Oesterreichische Stickstoffwerke — merger of the petrochemical divisions of OMV and OSW set Old Ben Coal Co. — coal price hike cut Old Gorp. — Doner, Max: MCA panel on occupational safety FRB authorizes company to continue as one-bank holding company R Instrument that continuously detects, measures and records the presence of minute quantities of moisture in manufacturing process Psubsoro, N.J., plant uses a Wellman-Lord sodium sulfite absorption process PVC copplymer resins prices. N PVC origes	Dec Dec Sept Sept Sept Sept Dec Dec Dec Sept Sept Sept Sept Sept Dec Dec	22 22 8 1 8 1 29 29 8 1 15 8	17 17 19 48 16 8 32 32 20 16 22 41	Glass fibers plant at Lexington, N.C., expansion . R N.Y. cites paint for lead content . Newton, Wilbert, at McA meeting . Paint remover sales . Potassium azide may become an important agricultural chemical and also reduce nitrate pollution of ground water and streams . Propylene glycol: licenses process from Kuraray Co.; putting onstream at Penuelse, P.R., an olefins plant (with Corco) that will make 650 million lbx/ year of propylene coproduct . N Public offering of government-backed merchant marine bonds . R Puerto Rico glycol plant . Sales in 71 second-quarter to be at a record high Third-quarter estimated . System to trap particulates from automotive schaust developed . N Pacific Lighting Service — Lurgi plant to make gas equivalent to natural gas . N Pacific Northwest Pipe Line — merger with El Paso: bribery changes stymie merger okay . Pacific Pumping Co. — acquired by Baltimore Aircoil . Baltimore sold to take over the assets it sold to PVO . R	July Dec Dec Oct Oct Oct Dec July July Oct Sept Nov	28 15 1 20 20 27 22 21 14 13 22 3	18 41 16 65 69 37 17 39 15 28 74 51 17	to be pooled with ELF-Erap and AGIP AGIP Petrofina of Canada — hydrogen plant at Pointe aux Trembles contract goes to Lummus Trembles aux Trembles contract goes to Lummus Trembles, Que, will be temporarily closed Petroleos Mexicanos — building new plants to help improve its export picture Petromar, S.A. — alleged monopoly in transattantic shipping is crux of U.S. suit with foreign firms Petroquimica Bahia Blanca — set up to take over construction of ethylene-based complex proposed 3½ years ap by Dow Chemical Petroquimica Chilena — Lummus' British subsidiary gets contract to design and engineer a \$40-million petrochemical complex at Concepcion Petroquimica General Mosconi — receives bids for construction of aromatics complex in La Plata Petro-Tex — butadiene markets, Purification system in the main butadiene unit at Houston plant damaged by fire and explosion Pitzer Inc. — Antiobiotic production residu from Groton, Conn, plant: company mas witich to a land-disposal system to as-	R Dec R Sept N Oct July Dec Nov N Nov N Sept N Nov	15 15 13 7 22 17 17 17	33 24 57 44 16 66 31 21 31 41
Houston Oil & Minerals purchases oil and gas properties	Dec Dec Sept Sept Sept Sept Dec Dec Dec Sept Sept Sept Sept Sept Dec Dec	22 8 1 8 1 29 29 8 1 15	17 17 19 48 16 8 32 32 20 16 22 41	Glass fibers plant at Lexington, N.C., expansion . R N.Y. cites paint for lead content . Newton, Wilbert, at McA meeting . Paint remover sales . Potassium azide may become an important agricultural chemical and also reduce nitrate pollution of ground water and streams . Propylene glycol: licenses process from Kuraray Co.; putting onstream at Penueiss, P.R., an olefins plant (with Corco) that will make 650 million lbx/year of propylene coproduct . N Public offering of government-backed merchant marine bonds . R Puerto Rico glycol plant . Sales in 71 second-quarter to be at a record high Third-quarter estimated . System to trap particulates from automotive schaust developed . N Pacific Lighting Service – Lurgip plant to more stream of the propylene construing structured by new group . N Pacific Northwest Pipe Line – merger with El Paso: bribary changes stymie merger okay . Pacific Pumping Co. – acquired by Baltimore Aircoil . Baltimore Aircoil . Baltimore Aircoil . Baltimore in take over the assets its old to PVO . R Pan American Sulphur – interest in Fertilizantes Fosfatados Mexicanos and	July Dec Dec Oct Oct Oct Dec July July Oct Sept Nov	28 15 1 20 20 20 27 22 21 14 13 22 3 8 7	18 41 16 65 69 69 37 17 39 15 28 74 51 17 9	to be pooled with ELF-Erap and AGIP AGIP Petrofina of Canada — hydrogen plant at Pointe aux Trembles contract goes to Lummus Trembles aux Trembles contract goes to Lummus Trembles, Que, will be temporarily closed Petroleos Mexicanos — building new plants to help improve its export picture Petromar, S.A. — alleged monopoly in transattantic shipping is crux of U.S. suit with foreign firms Petroquimica Bahia Blanca — set up to take over construction of ethylene-based complex proposed 3½ years ap by Dow Chemical	R Dec R Sept N Oct July Dec Nov N Nov N Sept N Nov	15 15 13 7 22 17 17 17	33 24 57 44 16 66 31 21 31 41
Houston Oil & Minerals purchases oil and gas properties. R L.A. court refuses rehearing on Kern stock case. R Messing, Morris: He started at bottom — new helps others move up. Sales and earnings, first-half '71 Aug 25-14 Willers, Thomas resigns; will be succeeded by Morris Messing Oesterreichische Mineraloel Verwaltung — merger of the petrochemical divisions of OMV and OSW set. Old Ben Coal Coal price hike out Oiln Corp. Office Corp. Coal price hike out Oiln Corp. Office Corp. Coal price hike out Oiln Corp. Office Coal price hike out Oiln Corp. Office Coal price hike out Oiln Corp. File authorizes company to continue as one-bank holding company . R Instrument that continuously detects, measures and records the presence of minute quantities of moisture in manufacturing process Paulsboro, N.J., plant uses a Wellman-Lord sodium suffite absorption process PVC copolymer resins prices . N PVC prices . N Safe-T-Flate pillow system — air bag controversy Air bags for automobiles face new	Dec Dec Sept Sept Sept Sept Dec Dec Dec Sept Sept Now Nov	22 22 8 1 8 1 29 29 8 1 15 8	17 17 19 48 16 8 32 32 20 16 22 41 44 23 61	Glass fibers plant at Lexington, N.C., expansion . R N.Y. cites paint for lead content . Newton, Wilbert, at McA meeting . Paint remover sales . Potassium azide may become an important agricultural chemical and also reduce nitrate pollution of ground water and streams . Propylene glycol: licenses process from Kuraray Co.; putting onstream at Penuelse, P.R., an olefins plant (with Corco) that will make 650 million lbx year of propylene coproduct . N Public offering of government-backed merchant marine bonds . R Puerto Rico glycol plant . Sales in 71 second-quarter to be at a record high . Third-quarter estimated . System to trap particulates from automotive exhaust developed . N Pacific Lighting Service – Lurgi plant to make gas equivalent to natural gas studied by new group . N Pacific Lighting Service – Lurgi plant to make gas equivalent to natural gas studied by new group . Pacific Lighting Service – Lurgi plant to make gas equivalent to natural gas studied by new group . Pacific Lighting Service – Lurgi plant to make gas equivalent to natural gas studied by new group . Pacific Lighting Service – Lurgi plant to make gas equivalent to natural gas studied by new group . Pacific Lighting Service – Lurgi plant to make gas equivalent to natural gas natural studied by new group . Pacific Lighting states of the service of th	July Dec Oct Oct Oct Oct Oct Sept Nov Dec July Nov Dec	28 15 1 20 20 20 27 22 21 14 13 22 3 8 7 24 15	18 41 16 65 69 37 17 39 15 28 74 51 17 9 19	to be pooled with ELF-Erap and AGIP AGIP Petrofina of Canada — hydrogen plant at Pointe aux Trembles contract goes to Lummus Trembles aux Trembles contract goes to Lummus Trembles, Que, will be temporarily closed Petroleos Mexicanos — building new plants to help improve its export picture Petromar, S.A. — alleged monopoly in transattantic shipping is crux of U.S. suit with foreign firms Petroquimica Bahia Blanca — set up to take over construction of ethylene-based complex proposed 3½ years ap by Dow Chemical — 1. Petroquimica Chilena — Lummus' British subsidiary gets contract to design and engineer a \$40-million petrochemical complex at Concepcion — Petroquimica General Mosconi — receives bids for construction of aromatics complex in La Plata Petro-Tex — butadiene markets, Purification system in the main butadien unit at Houston plant damaged by fire and explosion — Pitzer Inc. — Antiobiotic production residu from Groton, Conn., plant: company mas witch to a land-disposal system to assuage EPA's concern about the equatic environment of the sound Citric acid plant near Southport, S.C. studied	R Dec Sept July Dec Nov Nov Sept Nov	15 15 13 7 22 17 17 17 15 15 22 20 20 20 20	33 24 57 44 16 66 31 21 31 41 59
Houston Oil & Minerals purchases oil and gas properties. R L.A. court refuses rehearing on Kern stock case. R Messing, Morris: He started at bottom — new helps others more up. Sales and earnings, first-half '71 Aug 25-14 Willers, Thomas resigns; will be succeeded by Morris Messing. Oesterreichische Mineraloel Verwaltung — merger of the petrochemical divisions of OMV and OSW set. Oesterreichische Stickstoffwerke — merger of the petrochemical divisions of OMV and OSW set. Old Ben Coal Co. — coal price hike cut. Oilin Corp. — Doner, Max: MCA panel on occupational safety. FRB authorizes company to continue as one-bank holding company. R Instrument that continuously detects, measure quantities of moisture in manufacturing process. PUC copolymer resins prices. N PVC prices. S Sef-T-Flate pillow system — air bag controversy. Air begs for automobiles face new delay.	Dec Sept Sept Sept Sept Dec Dec Dec July Sept Sept Sept Sept Sept Sept Sept Sept	22 8 1 8 1 29 29 8 1 15 8 15 28 15	17 17 19 48 16 8 32 32 20 16 22 41 44 23 61 16 17	Glass fibers plant at Lexington, N.C., expansion . R N.Y. cites paint for lead content . Newton, Wilbert, at McA meeting . Paint remover sales . Potassium azide may become an important agricultural chemical and also reduce nitrate pollution of ground water and streams . Propylene glycol: licenses process from Kuraray Co.; putting onstream at Penuelse, P.R., an olefins plant (with Corco) that will make 650 million lbx/ year of propylene coproduct . N Public offering of government-backed merchant marine bonds . R Puerto Rico glycol plant . Sales in 71 second-quarter to be at a record high . Third-quarter estimated . System to trap particulates from automotive schools of the content of the second of the second . N Pacific Lighting Service — Lurgi plant to make gas equivalent to natural gas sudied by new group . N expect the second . N Pacific Lighting Service — Lurgi plant to make gas equivalent to natural gas with El Paso: briben changes stymle merger okay . Pacific Pumping Co. — acquired by Baltimore Aircoil . Pacific Pumping Co. — acquired by P	July Dec Oct Oct Oct Dec July July Oct Sept Nov Dec July Nov Dec Sept	28 15 1 20 20 20 27 22 21 14 13 22 3 8 7 24 15 8	18 41 16 65 69 69 37 17 39 15 28 74 51 17 9 19	to be pooled with ELF-Erap and AGIP Petrofina of Canada — hydrogen plant at Pointe aux Trembles contract goes to Lummus Tembles coue, will be temporarily closed Petroleos Mexicanos — building new plants to help improve its export picture Petromar, S.A. — alleged monopoly in transatiantic shipping is crux of U.S. suit with foreign firms Petronol — infrared scanning technique Petroquimica Bahia Blanca — set up to take over construction of ethylene-based complex proposed 3% years ago by Dow Chemical — hydrogen and engineer a \$40-million petroquimica Chilena — Lummus British subsidiary gets contract to design and engineer a \$40-million petroquimica Chilena — Complex petroquimica Chilena — Retroquimica Chilena — Petroquimica Chilena — Retroquimica Chilena — Petroquimica Chilena — Petroquimica Chilena — Petroquimica Chilena — Petropication system in the main bustadiene unit at Houston plant damaged by fire and explosion — Pitzer Inc. — Antiobiotic production residual from Groton, Conn. plant: company mas switch to a land-disposal system to assuage EPA's concern about the equatic environment of the sound Citric acid plant near Southport, S.C. studied	R Dec Sept Cot Nov Nov Nov Sept Nov Nov Nov Sept Nov Nov Nov Sept Nov Nov Nov Sept Nov	15 15 13 7 22 17 17 17 15 15 22 20 20 8	33 24 57 44 16 66 31 21 31 41 59
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Houston Oil & Minerals purchases oil and gas properties. R L.A. court refuses rehearing on Kern stock case. R Messing, Morris: He started at bottom — new helps others move up. Sales and earnings, first-half '71 Aug 25-14 Willers, Thomas resigns; will be succeeded by Morris Messing Oesterreichische Mineraloel Verwaltung — merger of the petrochemical divisions of OMV and OSW set Oesterreichische Stickstoffwerke — merger of the petrochemical divisions of OMV and OSW set Old Ben Coal Co, — coal price hike cut Olin Corp. — Doner, Max: MCA panel on occupational safety FRB authorizes company to continue as one-bank holding company. R Instrument that continuously detects, measures and records the presence of minute quantities of moisture in manufacturing process Psubsoro, N.J., plant uses a Wellman-Lord sodium sulfite absorption process PVC copolymer resins prices. N Safe-T-Flate pillow system — air bag controversy Air bags for automobiles face new delay. Saltville, Va, chlorine-caustic soda plant will close. R	Dec Dec Sept Sept Sept Dec Dec Dec Dec Nov Nov Nov Nov	22 8 1 8 1 29 29 8 1 15 8 15 28 15	17 17 19 48 16 8 32 32 20 16 22 41 44 23 61 16 17	Glass fibers plant at Lexington, N.C., expansion . R N.Y. cites paint for lead content . Newton, Wilbert, at McA meeting . Paint remover sales . Potassium azide may become an important agricultural chemical and also reduce nitrate pollution of ground water and streams . Propylene glycol: licenses process from Kuraray Co.; putting onstream at Penuelse, P.R., an olefins plant (with Corco) that will make 650 million lbx/ year of propylene coproduct . N Public offering of government-backed merchant marine bonds . R Puerto Rico glycol plant . Sales in 71 second-quarter to be at a record high . Third-quarter estimated . System to trap particulates from automotive schools of the content of the second of the second . N Pacific Lighting Service — Lurgi plant to make gas equivalent to natural gas sudied by new group . N expect the second . N Pacific Lighting Service — Lurgi plant to make gas equivalent to natural gas with El Paso: briben changes stymle merger okay . Pacific Pumping Co. — acquired by Baltimore Aircoil . Pacific Pumping Co. — acquired by P	July Dec Oct Oct Oct Dec July Oct Sept Nov Dec July Nov Dec Sept July Nov	28 15 1 20 20 20 27 22 21 14 13 22 3 8 7 24 15 8	18 41 16 65 69 69 37 17 39 15 28 74 51 17 9 19	to be pooled with ELF-Erap and AGIP AGIP Petrofina of Canada — hydrogen plant at Pointe aux Trembles contract goes to Lummus Trembles aux Trembles contract goes to Lummus Trembles, Que, will be temporarily closed Petroleos Mexicanos — building new plants to help improve its export picture Petromar, S.A. — alleged monopoly in transattantic shipping is crux of U.S. suit with foreign firms Petroquimica Bahia Blanca — set up to take over construction of ethylene-based complex proposed 3½ years ago by Dow Chemical	R Dec Sept Sept Sept Sept Sept Sept Sept Sept	15 15 13 7 22 17 17 17 17 15 15 22 20 20 8 8 13	33 24 57 44 16 66 31 21 31 41 59

Pyrolitic graphite ribbon Sales and earnings — third-quarter '71 . N Tetracycline judgment: U.S. Supreme Court refuses to hear appeal challenging	July Oct	21 20	24 17	Probe International — Mainland China trade could open door for U.S. ag chemicals. Procedyne Corp. — AWT Systems Inc. see	Aug	18	29	Research Triangle Institute — Project Threshold: 3-year, \$2-million industry- financed study launched to find ways to assure accuracy of air pollution measure-			
the way money from court judgment will be distributed N Oct 20-17 Pharmetrics, Inc. – synthetic skin: "poly-	Oct	27	20	under name Process Associates – licenses molecular sieves patent	Sept	1	44	Resistol S.A. — Monsanto Mexicana merger will create Mexico's third largest chemical	Sept	15	29
ion complex" based on polystyrene that resembles living animal tissue N Phelps Dodge — copper: good year ex-	Aug	4	33	Process Evaluation & Development Corp. — Grace preparing a new process to make newsprint from bagasse	Sept	29	21	company, Industrias Resistol S.A. (IRSA)	July	7	9
pected but pollution control costs could curb output	Dec	22	17	Procter & Gamble — Byrd says states should have primary responsibility for	зері	29	21	Slick R Sept 8-16 R Revion – Ciba-Geigy and Revion want to	Oct	6	15
Copper outlook dull	Dec	1 21	18 15	water pollution control and the federal				swap drug patents, market rights Ciba-Geigy will receive additional \$20	July	7	13
Pilot plant to get elemental sulfur from				government should take a backup posi- tion Challenges a blast by Purex that the in-	Sept	22	23	million	Oct	20	23
sulfur dioxide in smelter gas N Philadelphia Quartz — dry powder, hy-	Sept	29	51	dustry was pushing phosphate-type		10	oc.	tem	Oct	13	71
for detergents and cleaning compounds .	Aug	18	41	FTC challenges ads	Aug Sept	18	25 12	prices N	Sept	29	37
New forms of silica that repel water are looking for chemical jobs	Sept	8	39		Nov	24	20	Brown-in-Bag vying for a share of the cooking market	Oct	27	29
- letter	Oct	13	5	Locust Point, Md., detergent plant on	Dec	15	27	Dividends cut Rheinische Olefinwerke – butadiene plant	Sept	1	16
for geothermal energy (natural steam or hot water) in a volcanic area in SE				Management changes: Howard Morgens	Nov	3	21	addition		28	18
Phillips Petroleum – butadiene markets	Sept	29	24	becomes chairman of the board and chief executive officer; Neil McElroy					July	21	41
Calatrava see under name Computer programs available for				becomes chairman of the executive committee	Oct	20	22	Rhodia Industrias Quimicas e Texteis — terephthalic plant	Dec	8	26
Contract with NGP N	Sept	8 22	35 59	Toothpaste makers deny Nader's charges that stannous fluoride in toothpaste				Rhodiatoce - Montedison acquires full ownership; will integrate Rhodiatoce,			
Electrochemical fluorination process to make fluorocarbons N	Sept	1	43		July	21	13	Polymer and Chatillon	Dec	22	19
Management shuffle. William Martin be- comes president, John Houchin as-	Зері		43	Carbon dioxide plant at Maracay,	Aug	4	19	Serofim to engage in R&D of high-	Labor	28	15
sumes new title of deputy chairman of				Progil - Pechiney-St, Gobain will merge		1	16	modulus carbon fibers			
the board, William Keeler remains chairman of the board and chief ex-				Progres-Invest — Pancevo off-site units .	Sept	17	35	Pechiney-Saint Gobain ownership to be	Dec	22	19
North Sea "Ekofisk" oil field will also	Oct	20	22	Public Service Co. of Colorado — glass- fiber-reinforced light poles tested N	Aug	4	34	increased by acquiring interest now held by Saint Gobain-Pont-a-Mousson N	July	7	39
produce about 30,000 bbls/day of natural gas liquids — ethane, propane				Puerto Rico Olefins – special oil import quota for Puerto Rican olefins plant				Sales and earnings in '70 N Sales and earnings in '71 N Oct 13-31,	July	7	39
and butane; naphtha shortage fore- cast	Nov	17	31	Purechem - titanium trichloride plant in	July	28	9	(table)	Oct	27	51
Polyphenyl sulfide resins, Ryton, unit to be built at Philtex plant, Tex N	July	21	49	the Bayport Industrial Park near Houston	Sept	8	16	creased; assets will be transferred to Glucides & Derives which will be re-			
Polypropylene patent dispute with Montedison still not settled N		15	39	Purex Corp. — Brillo/Purex-brand non- phosphate detergent; reformulating				named Melle-Bezon	Oct	20	30
Process engineering computer programs		7	27	other cleaning products to remove	Aug	18	39	and merged with CTA R	Oct	20	30
by a joint venture	July	14	15	phosphates	Aug	10	39		Sept	1	16
Technology for Yugoslavian PE plant Pirelli – labor force to be trimmed N	Nov	17	35 19	coating, Turco Guard 100, may solve statuary problems	Aug	25	15	Richardson-Merrell — Baker & Merrell- National Labs: Israeli diagnostic test			
Plains Dresser, Ltd. – contractor for Amoco's gas dehydration plant R	Sept	29	24	P&G challenges a blast by Purex that	Sept	22	5	for cancer evaluation N	July	28 28	40 18
Plastic Resins & Chemicals – PVC unit at Sahupuram, India	Sept	15	23	the industry was pushing phosphate- type cleaners	Aug	18	25	National Drug Co vaccine to stem the epidemic of sleeping sickness afflicting			
Plastiline — Justice Dept, suit charges conspiracy involving DWV plastic pipe				Quits SDA; other soapers with a stake in nonphosphate detergents may follow				horses in Texas N Ridge Minerals Venture — Interior Dept.	July	28	39
fittings	July	21	17	out	Nov Sept	10	61	grants lease to mine sodium salts in federal oil shale lands in Colo N	luly	14	10
Polimeros del Lago — polyethylene plant	Dec	8	26	Purification Sciences, Inc. — Grace's Davison has world-wide license to plate-				Ridgway Marine - Nomex as boat-building	July	21	46
will use French technology N Polimex – sulfuric acid plants in Russia . R	Oct Sept	20 15	31 24	type generator	Nov	3	55	Riegel Paper – considering a plan under	July	21	40
Polimex-Cekop - Du Pont's Corfam goes to	Nov	17	22	compact air-cooled ozone generators in modular arrangement N	Oct	6	48	which its pulp, paper and real estate operations would be taken over by South-			
Polyetma - Greek polyester fiber plant , N		25	20	modelar arrangement	oct	0	40	west Forest Industries (table) Merging with Federal Paper Board in-	July	14	14
Polymer Corp. — asks for a finding that imports of styrene-butadiene rubber				Q				stead of Southwest Forest Rikkihappo – merger with Typpi; Finns	Aug	25	14
by Goodyear of Canada be considered dumping of the material by its Japanese			00	Quaker Oats - acquisition of Monsanto's assets relating to development and manu-				take petrochemical plunge (table) Rio Tinto Zinc — potash project in	Aug	4	18
Producer	V Sept	1	33	facture of protein beverage products . R	Oct Sept	27	21	Yorkshire, England, shelved N Rock School Joint Venture – Interior Dept.	Sept	22	59
China could be a market for Western chemical technology, particularly for				Sales and earnings, first-half report Qualitex — ICI plans acquisition N		11	31	grants lease to mine sodium salts in fed- eral oil shale lands in Colorado N	July	14	10
production of man-made fibers ! Ethylene plant joint venture in Canada	July	28	29	R				Rocky Mountain Research – four day work- week		4	12
considered	N Sep		13 46	Rad, Energoinvest - Pancevo complex				Roehr Chemicals – amphetamine produc- tion quotas set by the Justice Dept N		8	14
Montedison will integrate Rhodiatoce, Polymer and Chatillon			19	Radiation International – Nuclear Div.:	Nov	17	35	Rohm & Haas — fungicide sales: Dithane M-45 N Aug 11-18	Sept	8	37
Polyspinners Co. Ltd. — polyester fiber complex at Mogiley; no harassemnt or		-	15	irradiation turns acrylic-oak combination into durable flooring	July	14	37	Government asks that R&H be enjoined from allegedly discharging toxic waste	John	0	37
reprisals for the U.K.'s ouster of Soviet spies has been reported	N Oct	6	19	Radiation Technology Co irradiation	July	14	37	into the Houston Ship Channel N	July	28	9
Russian polyester fiber plant onstream . Pontiac Corp. – urethane blocks inside	R July	/ 21	33	turns acrylic-oak combination into durable flooring	July	14	37	Gregory, V. Jr. at Financial Analysts of Philadelphia meeting	Dec	15	21
telescoping steel boxes are impact ab- sorber in bumpers	Sep	t 15	41	Ranco Industrial Products – de-icer markets	Nov	24	31	that awarded priority to Monsanto on			
Porter, H.K. Co patent fight: dispute	. Sep	1 15	41	Rayonier Quebec — Canada: three dis- solving pulp mills will be built N	July	7	10	use of 3, 4-dichloropropionanilide as a selective postemergence herbicide and			
with Goodyear over patent on a unique flexible hose for car radiators won	N Oct	27	25	Raytheon Co. — merger with Iowa Manu- facturing okayed		22	17	awarded priority to Rohm & Haas . R Pennsylvania being pressured for some		28	18
Potlach Forests — Northwest Paper see under name				Reactive Metals Co. — Pres. Price predicts that titanium prices will be depressed				kind of corporate tax relief N Pennsylvania's "oppressive" corporate	Aug	18	18
Power-Gas Corp. Ltd. – acrylonitrile from propane process		20	69	for the rest of '71	Sept	20	8 65	taxes may force companies to move, says President Gregory	Aug	4	6
Formaldehyde plant at Oldbury will use ICI process	R Jul	y 28	15	REFAC Chemical Proces Co. — European boiler treatment compound, Panorin,				Pennsylvania's top CPI firms threaten to seek greener tax pastures	Sept	29	39
Methanol plant at Camacari, Bahia con- tract	. Dec	8	26	making bid for the American market Reheis Chemical — Rubino, A, on	Oct	27	41	Plexiglas mirror featured at plastics show	Nov	10	19
Subcontractor for Indian fertilizer pro- ject	. De	ot 15	23	Reichhold Chemicals – polyester-resin	Oct	20	66	Polymer to improve impact of PVC pro- ducts	Aug	11	39
Pratt & Lambert - paint remover sales . Princeton Chemical Research, Inc	. Oct	20	65	reinforced "paper" houses approved by	Aug	11	11	Sales and earnings, third quarter N Rollins-Purle — Logan Township, N.J., plan	I Oct	6	9
degradable polymer will be sold under the name of Ecolan	. De	8	45	FHA Polyether polyols plant in production . F Reliance Universal — superfinishes: thermo			24	ordered by the state to install acceptable			
Pritchard, J.F. & Co contractors pre-				setting coatings bid for furniture		-	24	waste-water treatment and disposal units	R Nov	3	19
dict '72 upturn (chart)			-040	market	Dec	8	31	Romchim - contract for acrylonitrile	n Dec	1	21
dict '72 upturn (chart)	9			Hesdel Engineering — acquiring Whittaker's				plant at Pitesti goes to Badger Ltd F			
dict '72 upturn (chart) Stretford process, which can also remow 99,9% of sulfur from gas, sublicensed to Black, Sivalls & Bryson	3			Hesdel Engineering — acquiring Whittaker's distribution rights to Courrier Communications	R July	7	15	Ethylene oxide and ethylene glycol plant at Pitesti planned		24	21
dict '72 upturn (chart) Stretford process, which can also remove 99.9% of sulfur from gas, sublicensed	N Seg	ot 22	74	Hesdel Engineering — acquiring Whittaker's distribution rights to Courrier Communi-				Ethylene oxide and ethylene glycol plant	R Nov		21

Pennsylvania's top CPI firms threaten to seek greener tax pastures	Sept	29	39	Joins Rotterdam-Antwerp pipeline complex	Dec	1	29	Soc. Technique d/'Engerprises Chimiques Niger desert uranium minerals processing			
Rothschild, N.M. & Sons - African nickel-	oopt	2.0	00	Styrene-butadiene capacity in Pernis,				plant	Aug	4	19
copper development; stock transactions must be ironed out first	Aug	4	11	Holland, boosted	luly	28	15	Soc. Traction & Electricite — graphite electrode plant near Liege, Belgium,			
Round Prairie Lumber Co. — Fibreboard				facilities abroad N	Aug	18	31	joint venture	Sept	15	24
Corp. issues stock (table) Royal Dutch/Shell – Sarawak see under	July	14	14	Energy — and clean air not as incompati- ble as some environmentalists would				Sofina – glycerol plant in U.S.S.R R Sogo-France – Franco-Soviet chemical	Aug	4	19
name				have one believe says Bridges	Dec	8	20		Oct	20	29
Royce Chemicals — sodium hydrosulfite plant in India	Sept	15	23	Housecleaning in chemicals to improve profitability.	Nov	17	23	Solvay & Cie, - bond offering will be used			
Rubberfabriek Vredestein – Goodyear will				Portable light meter to measure visible			-	to help finance a \$450-million capital spending program N	Sept	22	51
sell its shares of RV stock to Goodrich . Rust Engineering – cooperation and li-	Oct	27	19	smoke emissions to be marketed N Styrene-butadiene rubber business being	Aug	11	39	Chairman Jacques Solvay: Jogger runs Belgium's biggest chemical maker	Sept	29	68
censing agreement with Boliden A.B. in				dropped	Nov	17	23	A new look for European old-timer	Sept	29	29
copper processing N	Aug	4	34	Sulfur emission limits set in Anacortes, Wash	Dec	1	18	'71 profits slide (table)	Oct	27	51
c				Texas expansions to recover liquid				pand trade and technical cooperation N	Nov	24	43
S				ethane	July	7	15	Sales and earnings – first half of '71 . N	Oct	20	31
St, Clair Rubber Co three-year contract	_			shredding and spreading of urethane foam				Technology for Russian glycerol plant	Aug	4	19
signed	Sept	22	24	to soak up oil spills will be evaluated , N Sheller-Globe Corp, — URCLPWA's new	Sept	8	40	United Polymers see under name Sonatrach — awards construction contract			
Poulenc will increase its ownership in				2-yr contract	Aug	11	12	to Pritchard-Rhodes for a gas liquefaction			
Pechiney-Saint Gobain by acquiring the 39,11% interest now held by SG-PaM , N	July	7	39	Shellstar Ltd. – fertilizer information to be shared with ICI and Fisons N	Nov	10	27	plant at Skikda, Algeria	July	7	45
St, Joe Minerals - lead prices N	Dec	15	27		Oct	20	65	Bergen Built Inc. (table)	July	14	14
St. Regis Paper — Florida formulates tough rules to control Escambia Bay				Phase II: Queuing for price hikes	Dec	1	17	Southwest Forest Industries - Riegel Paper			
discharges	Nov	10	18	Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31	considering a plan under which its pulp, paper and real estate operations would be			
Offer to acquire Tillotson & Son Ltd.	July	14	14	Showa Denko sales and earnings, first-	Dec	0	31	taken over by SF (tabel)	July	14	14
Will sell two paper mills at Dayton and	July	14	14	half '71 N	Aug	18	31	Riegel Paper calls off merger Soyuzchimexport — U.S.S.R. seeks ventures	Aug	25	14
Urbana, Q, converting equipment at				Signal Oil & Gas - goethermal steam well				with West	Oct	20	29
Urbana to Ward Harrison; Harrison will set up Howard Paper Mills R	Dec	1	18	produces 210,000 lbs, of steam per hour during drilling	Nov	17	24	Spring Chemicals Ltd. — System for spent	Cont	29	51
Salem Brosius - contract for Deutsche				Sim-Chem - DMT plant at Mogilev, Russia,				sulfite liquor processing N Spruance, Gilbert Co. – superfinishes:	Sept	29	51
Marathon's petroleum coke calcination plant expansion at Burghausen,				completed	Sept	1	10	thermosetting coating bid for furniture		0	0.1
Bavaria	July	7	45	American Petrofina cannot buy former				Squibb Beech-Nut - tetracycline judgment:	Dec	8	31
				SO properties in 14 states from			40	U.S. Supreme Court refuses to hear appeal			
impressed how association (SOCMA) bends backward to help smaller com-				Atlantic Richfield	Dec	1	18	challenging the way money from court judgment will be distributed N	Oct	20	17
panies	Dec	1	26	Corp. R Sept 8-16	Oct	6	15	Staley, A.E. Mfg, Co snack-food busi-	OCI	20	
Salzgitter — offers to build PE plant and coking unit for Poland in exchange for				Court decision vacates the injunction bar-				ness a boom for starches	Nov	17	53
Polish coalR	Aug	4	19	ring Slick from exercising its 50.7% stock ownership in Filtrol R	Nov	17	24	name to Henkel, Inc	Sept	29	24
Samson Chemical — hydrophilic, hydro- xylated methacrylic polymer coating to				Filtrol drops antitrust suit against				Standard Oil of California - Hawaii vs			
confound graffiti artists	Aug	11	10	Slick; Slick must form a new corpora- tion to take over the assets it sold to				SOC in gasoline and asphalt price			
Sandoz – sales firs-half '71 N	July	28	29	Pacific Vegetable Oil R	Nov	24	19	fixing case	Oct	27	20
Sandvik Steel — tungsten carbide produc- tion starts	Aug	11	40	Officers fill Filtrol posts, Is merger in	0	0	40	be acquired and merged with Amoco . R	Aug	4	12
Sanyo Chemical Industries — flocculants				the wind? Sales and earnings, first-half '71	Dec	8 25	19 14	Midwest directors turn thumbs down on merger	Aug	25	9
capacity at Nagoya to double R Sapolin - N.Y. cites paint for lead con-	July	28	15	Sloane, R. & G. Manufacturing - Justice				Midwest stockholders suing Standard for	Aug	20	9
tent	Dec	15	41	Dept, suit charges conspiracy involving DWV plastic pipe fittings N	July	21	17	using "misleading scheme" to take	Oct	6	15
Sarawak — natural gas liquefaction unit in the Malaysia-Borneo area planned , N	Aug	18	31	Slovakian Chemical Industry Corp	outy			control of Midwest	Dec	22	17
"Saturday Review" - acquired by Boise	Aug	10	31	nylon fiber plant will use Akzo tech-	Διια	4	19	Polypropylene patent dispute with	D		39
Cascade (table)	July	14	14	nology and equipment R Smith, A.O. Corp. – sales and earnings –	Aug	4	19	Montedison still not settled N Standard Oil (New Jersey) – Brisco:	Dec	15	39
Savogran Co. — paint remover sales Scientific Design — benzene-based process	Oct	20	65	third-quarter estimated	Oct	13	28	Housecleaning in chemicals to im-			00
for India's maleic anhydride plant R	Oct	20	30	Smith, Kline & French - amphetamine				prove profitability	Nov	17	23 16
Contract for Romchim's ethylene oxide and ethylene glycol plant	Nov	24	21	production quotes set by the Justice Dept	Dec	8	14	Standard Oil (Ohio) - sales and earnings			
Scott Paper - Mobile, Ala., mill workers				Stimulants' production must be cut 60% says Justice	Dec	15	23	in '71	July	7	14
sign three-year pact	Sept	22	24	Drugmakers seek vaccine and pill to fight	Dec	15		sales Star Paper — Nippon Kakoh studying	Oct	20	65
disposable paper fabric finishing	0	00	04	narcotic addiction	Sept Sept	22	39 21	Star Paper — Nippon Kakoh studying European synthetic paper market pros-			
Paper-fiber plant site may be in either	Sept	22	24	Introduces less expensive line of drugs Pennsylvania being pressured for some	Sopt	22	21	pects	Nov	3	17
Delaware or Maryland	Aug	25	16	kind of corporate tax relief N	Aug	18	18	Stauffer Chemical Co Baton Rouge			
Pennsylvania being pressured for some kind of corporate tax relief N	Aug	18	18	Top CPI firms threaten to seek greener tax pastures	Sept	29	39	Trade Council of the AFL-CIO drops the "unfair labor practice" charges it filed			
Pennsylvania's top CPI firms threaten to				rian to accelerate growth in other areas		-		last month against Stauffer and Borden	. July	14	17
seek greener tax pastures	Sept	29	29	calls for consumer products	Nov	24	19	Baton Rouge workers laid off during con- struction slowdown band together to			
ing wastes	Sep	t 15	29	executive officer: Raises dogs and				win contract maintenance jobs away			
Searle, G.D. & Co. — hormones, 11-beta- methyl-19-norsteroids, new class un-				Thorazine: FDA may crack down on	July	7	48	from AFL-CIO	Sept	1	42
veiled	Aug	4	33	phenothiazines N	Nov	24	14	sulfur dioxide emissions: company asks			
Selas Corp suing Wilshire Oil of Texas and 8 other companies and individuals				Smith, Miller & Patch — acquired by Coope Labs	Sept	1	10	for more time to comply with Sept. 1	Oct	13	21
for allegedly conspiring to take control				Snam Progetti — contract for Yugoslavia				'73 deadline			
of it "by fraudulents acts and practices".	. Sep	t 29	23	aromatics fractionation plant R LDPE plant for Algeria N	Aug	20	19	sured by Texas Air Control Board	July	21	14
Sener — contract for Calatrava butadiene expansion	R Oct	20	30	Snia Viscosa — Irish plant to polymerize			31	Company fined \$500 for contempt of court	Aug	11	10
Serofim - Rhone-Poulenc and Soc. Le		-		caprolactam and spin nylon-6 fiber	Sept	8	22	resticide bill halled		29	
Carbone-Lorraine joint venture to en- gage in R&D of high-modulus carbon				Soc, Anonyme de Gerance et d'Armement				Soda ash expansion at Green River, Wyo.	Oct	20	22
fibers	R July	y 28	25	(SAGA) — alleged monopoly in trans- atlantic shipping is crux of U.S. suit with				Soda ash prices	N Dec	15	27
Serosonic Laboratories – acquisition by Mallinckrodt Chemical Works	V Aug	g 11	6	foreign firms	Dec	22	16	Technology for Yugoslavian VCM unit Turbine engines catch on in trucks and	Nov	17	35
Shakespeare — Columbia Products Div,:				joint venture urethane resins plant N	July	14	30	autos, could boost demand for syntheti			
golf club shaft of graphite yarn	Jul	y 21	46	Soc, des Mines de l'Air — uranium minerals				Iubricants	. Oct	27	27
Shell Chemical - bisphenol A capacity	N Jul	y 7	34	processing plant in Niger desert F Soc. des Usines Chimiques Rhone-Poulenc -	R Aug	4	19	Foam	. Aug	18	25
will be boosted				methylchlorosilanes plant at Rousillon				Stearns-Roger - OCR pilot plant for			- 00
make big demands	N Oc		43 36	Soc, du Caoutchouc Butyl — EPDM plant t	0	1	21	Consolidation Coal nearing completion. Steelco Chemical — executives Steel and	. Oct	27	33
Landrin, DDT substitute	. Au	g 18	35	start up in '73	Nov	24	27	Deiters indicated for air pollution			^
Polypropylene plans for Canada revived	N Oc	1 13		Soc. Italiana de Resine — petrochemical complex in Lamezia, Calabria		1 1	13	violation	. Aug	11	9
Polypropylene plant in Australia Torrance, Calif., plant to close at year's	N Au			Soc. Le Carbone-Lorraine - joint venture		,	13	Natural cosmetics will make solid market			0.5
end	. No	ov 3	41	called Serofim to engage in R&D of high- modulus carbon fibers	R July	, 28	15	gains	. Dec	22	2 36
Shell Chemicals U.K. — U.K. operations cut	. De	ec 22	21	Soc, Melle Bezon — Rhone-Poulenc will	· July	28	15	toiletries and cosmetics	. Aug	4	21
Shell-Koppartrans — Europe's first plant				increase holdings, transfer assets to				Patent litigation with Allied involving a method for sulfation and sulfonation			
for desulfurizing heavy fuel oil will be built in Gothenburg, Sweden	R Or	ct 27	19	Glucides & Derives, which will be re- named Melle-Bezon	R Oct	20	30	settled	N Aug	18	88
Shell Nederland Chemie — dipnenyloi-				Soc. Nationale Sonatrach - Corco con-				Sterling Drugs, Inc. — drugmakers seek va	C+		
propane plant in Holland	N A	ug 18	31	tracts for feedstocks	N Dec	22	2 9	cine and pill to fight narcotic addiction Stevens, J.P. — Fantessa process for im-	. Sept		
Ethylene oxide unit for Moerdijk, Netherlands	. Ju	ıly 21	39	at San Martin Texmelucan	R Nov	10	87	proving the comfort of polyester fabrics	. Oct	13	83

Common Co				Telescommunications Industries Inc.				Continue at a significant and an also been			
Stone & Webster — Yugoslavian contract for Pancevo complex	Nov	17	35	Telecommunications Industries, Inc. – ozone and sonics team up in an unusual				Cooking plastic film: turkey-size heat- sealed polyester bag introduced N	Oct	27	29
Stressed Structures Co Polymer licenses				assault on bacteria and organics in	_		mo	Corrosion-inhibitor system could slash			-
a self-stressing concrete process Studebaker-Worthington – Pasco share-	Nov	3	46	water	Sept	22	73	production costs in ammonia plants De-icers devised for runways	Aug	4 24	32 29
holders group fights management on				to GAF at Texas City studied N	Dec	22	31	Derivatives plants at Penuelas, Puerto	1404	24	
sales of assets	July	7	15	Case, J.I. Co. see under name				Rico complex delayed	Sept	22	23
Stymer – polystyrene plant at Porvoo (table)	Aug	4	17	First commercial domestic shipment of calcined colemanite to Owens-Corning-				Ethylene amine capacity at Taft, La., boosted	Sept	1	33
Sumitomo Bayer Urethane — methylene	-			Fiberglass N Aug 11-39 R	Dec	15	22	Ethylene hardship award from OIAB , N	Nov	10	13
diisocyanate unit at Kikumoto works	Sent	15	24	L.A. court refuses rehearing on Kern stock	Dec	0	19	Ethylene oxide capacity at Antwerp ex-	laster	21	20
completed	Sopt	.5	24	Oasis Pipe Line Co, see under name	Dec	8	15	Group 1: chemicals and plastics div-	July	21	39
fenitrothion, phenthoate	Aug	4	36	Platform-mounted offshore nuclear power			0.0	ision says reduced operating costs, new			
Licensing agreement for acrylic fibers with Cyanamid	Aug	4	19	Russian deal would swap American-built	Aug	18	98	product mix will boost its earnings 7-	Oct	20	57
Licensing agreement with Diamond for	riug	-	1.5	ships and grain farm equipment for				10% through '80	Oct	20	3/
the manufacture of its cation-type			**	Russian natural gas and oil N	Dec	8	14	during monetary crises	Nov	17	55
Duolite ion exchange resins in Japan . R Profits drop; Hasegawa favors revalua-	Sept	15	18	Texas natural gas pipeline system is being expanded 333 miles	July	21	13	Interdisciplinary research (table)	Aug	25	43
tion of yen to slow Japan's economic				Westrell, Casey Jr. will head new industri-	July	21	10	Joint plastic paper venture Acroline Co, formed N	Nov	17	17
growth	Sept	29	21	al ecology department	Aug	11	10	Lay off of 450 employees within the			
Raw materials for Takasago menthol plant	Aug	4	19	Tennessee Eastman — Foster Wheeler ob- tains licensing rights to TPA and DMT				next few months Linde Div, will build liquid hydrogen	Nov	24	21
Sales and earnings first-half '71 N	Aug	11	31	technologyN	Nov	17	65	plant at Ashtabula, O	Sept	8	16
Singapore petrochemical complex plan-		00	**	Tervakoski Osakeyito - PP film plant;	A	4	17	Metal Associates see under name			
ned	Dec	22	19	Finns take petrochemical plunge (table) . Tetra Pak Co, — claims paraffin-like ad-	Aug	4	17	Oil and gas interests sold to Ashland Oil . R 'Outside' directors are 'in'	Oct Aug	13 18	29 57
make and market water treatment sys-				ditive that makes plastics biodegradable .	Dec	8	49	Phenol-water mixtures will be standard-	rwg		
tems and industrial waste water pro-				Texaco – sulfur emission limits set in	D	1	10	ized N	July	7	34
cessing equipment in Japan, S. Korea and Taiwan	Sept	1	16	Anacortes, Wash,	Dec	,	18	Polymer labs study shows that plastics, with rare exceptions, won't biodegrade.	Dec	8	45
Sumitomo Shipbuilding & Machinery —	oopt		10	at Pointe-a-Pierre, Trinidad, contract goes				PuraSiv units: Molecular sieves may be	Dec	0	45
forms 50-50 venture with Envirotech to				to Ford, Bacon & Davis R	Sept	8	16	the answer to controlling emissions from			
make and market water treatment sys- tems and industrial waste water pro-				Texas Eastern Transmission — files appli- cation with FPC to import LNG from				sulfuric acid and nitric acid plants Sept 1-44, N Nov 17-65	Dec	8	42
cessing equipment in Japan, S. Korea				Libya R	Oct	13	29	Sales and earnings, third quarter N	Oct	6	9
and Taiwan R	Sept	1	16	Lurgi plant to make gas equivalent to				Superfinishes: thermosetting coatings bid			
Sumter Builders — infrared scanning	Nov	17	66	natural gas studied by new group , , , N SNG plant will use Japan Gasoline's	Nov	3	51	for furniture market	Dec	8	31
Sun Oil — Pennsylvania being pressured	IAOA	17	00	process N	Dec	8	25	Texas City Petrochemical complex will close #2 olefins unit and ethylene			
for some kind of corporate tax relief . N	Aug	18	18	Tecon Gasification project N	Oct	20	69	oxide unitN	Sept	8	25
Pennsylvania's top CPI firms threaten	Cont	20	20	Texas Gulf Sulphur — mining at Lee Creek phosphate complex won't affect fresh-				West Virginia coal mine closed because			
to seek greener tax pastures	Sept	29	39	water says study	Nov	3	17	it couldn't sell the mine's high-sulfur- content coal	Oct	6	15
complex in Florida	Aug	11	10	Oil and gas business (table)	July	7	12	Union Carbide Canada — ethylene plant			
Susquehanna Corp. – American Gypsum		17	04	Textilana Corp Stepan Chemical and				in Canada: UC possible new partner . N	Sept	1	13
Div. sold to two private investors R Justice Dept, suit charges conspiracy	Nov	17	24	Allied have settled patent litigation in- volving a method for sulfation and				Furnace for Beauharnois, Que, plant . R Sales and earnings down in 3rd quarter	Dec	15	33
involving DWV plastic pipe fittings . N	July	21	17	sulfonation N	Aug	18	88	'71	Nov	10	19
Svenska Cellulosa Aktiebolaget — agree- ment gives Combustion Engineering the				Textron — Kendall considering merger proposals from Textron and Colgate-				'71 Sales and earnings for 10 years — A neat			0.73
rights to produce and market SCA-				Palmolive	Nov	3	17	Canadian caper — report (chart) Union Carbide Mexicana — hydrofluoric	Aug	11	27
Billerud chemical recovery process for				Hejects merger offer	Dec	1	18	acid unit at Apodaca, near Monterrey			
sodium-based waste sulfite liquor R Nippon Kakoh studying European	Nov	24	19	That Petrochemical — Japanese balking at the price being asked for ethylene N	Cont	29	27	(chart)	July	14	34
synthetic paper market prospects R	Nov	3	17	Tillotson & Son Ltd, — St, Regis Paper's	Sept	29	21	Union Espanola de Explosivos-Rio-Tinto — dimethyl terephthalate plant and tereph-			
Swedish Match Co new "self-destruct"				acquisition offer (table)	July	14	14	thalic acid unit at Tarragona, Spain R	Dec	8	28
approach to plastic packaging N	Sept	22	74	Tisza Chemical Works - polyethylene	Nov	24	21	Forms jointly owned company with Cros	_		
Swift & Co. — Phase II: Queuing for price hikes	Dec	1	17	plant starts up	Nov	24	21	to consolidate fertilizer sales R Merger talks with Cros may be delayed	Dec	15	33
price hikes	Sept	8	16	Whittaker's Turner Metals Div R	July	28	18	because of internal strife within Cros. N	Dec	22	19
Swift Chemical — Consolidated Fertil- izers Ltd, see under name				Titanium Metals — Henderson, Nev. ingot	Coos	1	0	Union des Industries Chimiques - French			
Sybron Corp. – Pfaudler Div.: Chemshow				plant: temporary closedown begun Tomakomai Chemical — sulfuric acid	Sept	,	8	chemical industry production increased	C	15	21
exhibits	Dec	8	41	plant on Hokkaido island R	July	14	16	5.4% in the first half of '71 N Union Oil of California – process pro-	Sept	15	21
Taylor Instrument Div. — solid-state panel instruments, called Quick-Scan				Toray Industries – carbon fiber unit at	Sept	1	16	duces super sulfur recovery from			
1300, debutN	Nov	17	65	Shiga works completed	Aug	11	37	refinery waste gases	Sept	22	73
Taylor Instrument Process Control				Toyo Engineering - fertilizer plant at				Uniper - PP unit for Sao Paulo proposed .	Dec	8	26
Div. – solid-state electronic panel in- struments at Chemshow	Dec	8	41	Tuticorn for the Indian government Russian contracts for equipment for	Sept	15	23	Uniroyal - ABS capacity increase			
vonBerg, William, president: Account-	000	0	41	ammonia plants R	Dec	15	33	(table)	Oct	20	23
ant's three-part package adds up	Nov	17	82	Technology for Algerian petrochemical	_			ABS markets (chart)	Aug	25	39
Syntex Laboratofies — acquisition by Diamond Labs approved	Sept	1	10	vCM plant for Rumania R	Oct	20	31 19	Maleic hydrazide dispute with Louisville Chemical: will the statute of limita-			
Diamond Laus approved	Sehi		10	Trailigaz Cie, — ozone generators	Nov	3	55	tions bolter Uniroyal's position? N	Oct	27	25
T				Transcontinental Gas Pipe Line Corp				Vila, George, chairman and president: What chemical makers want after the			
TSI Inc Thermo-Lag, new fireproofing				planning plant to convert liquid hydro- carbons into synthetic natural gas	Oct	27	17	freeze	Sept	15	15
coating for steel	Aug	11	19	Trans-Southern Pipeline Corn, — solids will	Oct	21	17	United Foam - acquisition of Stauffer's			
Taita Chemical - holding up an ex-				move in pipelines using air as transport				urethane foam operations	Aug	18	25
pansion in Taiwan	Nov	3	45	medium	Dec	22	31	United Gas Pipeline - SNG plant will use	-		or
units for VCM and hydrogen chloride R	July	21	33	velop liquefaction and transportation of				Japan Gasoline's processN	Dec	8	25
Takasago Perfumery - menthol plant at				natural gas	Aug	18	29	United Nuclear Corp partnership with Gulf Oil in new joint venture, Gulf United			
Iwata	Aug	4	19	Trudbenik - Pancevo complex contracts . Typpi - merger with Rikkihappo; Finns	Nov	17	35	Nuclear Fuels Corp	July	14	15
anhydride plant at Kashima R	July	28	15	take petrochemical plunge (table)	Aug	4	18	United Polymers - Taiwan approves high-			
Tatton, Wm, & Co ICI plans								denisty PE plant R	Dec	22	21
acquisition	Aug	11	31	U				U.S. Borax & Chemical — boric acid and	0	40	00
Engineering for equipment for ammonia				UCB (Union Chimique-Chemische Bedrijven)				borax unit near Madras, India	Sept	15	23 17
Polyector fiber plant annual at	Dec	15	33	- plans to visit USSR in an effort to ex-				U.S. Industrial Chemicals Co Gulf Coast	outy		
Polyester fiber plant onsteam at Mogilev	July	21	33	pand trade and technical cooperation , N	Nov	24	43	chemical plants hard hit by RR strike	Aug	4	10
VC monomer plant will U.S. tech-	July	2.	55	USV Pharmaceuticals — Revion and Ciba- Geigy want to swap drug patents, market				Tuscola, III., plant lays off 100 salaried	C	15	10
nologyN	Sept	8	19	rights	July	7	13	employeesR	Sept	15	18
Technic Inc. – free consulting service for companies with plating problems	Dec	22	36	Ube Industries caprolactam plant in				U.S.I. Europe - LDPE plant in Antwerp capacity tripled N	Sept	29	27
Tecon Gasification — project to gasify	Dec	22	30	Turkey for Petkim	Sept	1	16	U.S.I. Far East - plans to double capacity	oopt	20	-
110,000 bbls./day of naphtha N	Oct	20	69	Synthetic alcohol plant at Sakai R Ugine-Kuhlmann – sales and earnings –	Oct	20	30	of its PE plant at Kaohsiung by seeking			
Tedruth Plastics Corp. — world's first all- urethane boat, dubbed the Pike,				'70 N	Aug	4	20	permission to build HDPE unit on the island	Nov	3	45
designed	Sept	22	61	First-half '71	Oct	6	19	Taiwan approves expansion of low-density	1404	3	45
Teijin Ltd how much will textile pact				Urea-formol adhesives capacity at Villers- St. Paul expanded	Sept	22	48	PE plant	Dec	22	21
hurt?	Nov	10	87	Unilever - Klikfast: new aerosol design	Oct	20	66	U.S. Mineral Products - fireproofing coat-	Aug	11	19
ICI's bramoxone weed killer N	Sept	29	27	Sales and earnings, first-half '71 N Union Camp – acquiring 60% interest in	Aug	25	20	ings for steel	Aug	(1	15
Postpones p-xylene and DMT projects				Tekton Corp. (table)	July	14	14	merger with Federal Pacific Electric being			
in Thailand N President Shinzo Ohya: At 77, he's not	Aug	4	20	Savannah, Ga, mill: company builds				considered	Nov	3	19
too old to lead a protest march	Oct	27	56	\$17-million lagoon to solve waste pro- blems	Aug	11	32.	Projects doubling of copper production rate and sharp uptrend in earnings	Oct	13	27
Tekton Corp Union Camp acquiring				Union Carbide Corp. — Carbon Products				U.S. Steel - price hike proposal (table)	Dec	15	19
60% interest (table)	July	14	14	Div.: golf club shaft of graphite yarn	July	21	46	Steel strike's toll	Aug	11	12

War tax case: Treasury Dept, is going to Supreme Court in an attempt to block				Solid plasticizers prices N Ventron – borohydride system for mer-	Sept	22	59	Williams Brothers Engineering - contract for solid-waste disposal plant for			
USS from getting back \$28 million in taxes the co, says it should not have				Cury removal N Vero Beach Laboratories – Bayer merging	Dec	8	43	Oklahoma's Indian Nations Council of Governments	Aug	18	29
paid 20 years ago	Dec	8	20	six wholly owned subsidiaries	Dec	8	18	Williams Cos Resource Sciences see	Aug	10	29
USS Chemicals — Neville Island, Pa. plant adds plasticizer unit	Nov	24	19	Verona Corp. — Bayer merging six wholly owned subsidiaries	Dec	8	28	under name Wilshire Oil of Texas — Selas suing WOT			
Universal Oil Products — auto exhaust- control devices use could double platinum				Vibra Screw — vibrating bins offer new ways to keep bulk solids moving	Aug	4	35	and 8 other companies and individuals			
demand by '76 (charts)	Aug	11	16	Vistron Corp glass-fiber-reinforced	Aug	-	00	for allegedly conspiring to take control of it "by fraudulent acts and prac-			
Boston Gas' SNG plant will employ MRG process N	Oct	27	37	plastic at Hawthorne, Calif., plant ex- pansion	Dec	8	19	tices"	Sept	29	23
Chemicals & Plastics Group's v-p Robert	OCI	21	31	Vulcan-Cincinnati - Marathon's isoprene				signed	Sept	22	24
Price, Jr.: He knows the name of the game	July	14	48	process licensing rights N Vulcan Manufacturing – acquisition by	Aug	11	40	Wilson Pharmaceutical & Chemical — Pro- tein Technology Div.: Proteins add			
Dissident shareholders considering				Zurn Industries completed R	Oct	27	21	muscle to toiletries and cosmetics	Aug	4	21
Dividend (third-quarter) being omitted	Aug	18	27 14	Vulcan Materials — Baton Rouge workers laid off during construction slowdown				United Chemical & Organic Products Div. to be sold to Wilson-Sinclair R	July	21	15
Logan: Hoping the company's single con-			45	band together to win contract main-	Cont	1	42	Wilson-Sinclair - purchase of United	,	-	
verter can cut two types of emissions . Logan, John, president becomes chief	July	28	15	tenance jobs away from AFL-CIO	Sept	,	42	Chemical & Organic Products Div. of Wilson Pharmaceutical & Chemical R	July	21	15
executive officer Jan. 1 R	Sept	29	24 15	VAZ				Wintershall AG - process will permit big		-	
'71 second quarter operating loss Parex process for separationg para-	July	14		vv				savings in making chlorinated par- affins	Dec	1	43
xylene	Aug	11	37 14	Walden Reseasrch Corp Project Thresh-				Witco Chemical Minnig, Max chief operating officer: More of the same in			
Universal Papertech Corp polyester-re-	Jupi	U	1.4	old: 3-year, \$2-million industry-finance study launched to find ways to assure				his two new jobs	Aug	25	56
sin reinforced "paper" houses approved by FHA	Aug	11	11	accuracy of air pollution measure-				Resigns as president, will join Borden Inc. as corporate v-p and head of			
Upjohn — CARG files a petition to halt	riog			Warner-Lambert — Parke-Davis acquisition:	Sept	15	29	its chemical div N	Sept	8	9
Agriculture Dept. plans to issue royalty- free, exclusive licenses to Upjohn and				FTC is still seeking to block merger N	July	7	9	Oil and gas business (table) Thermosetting resin introduced at	July	7	12
Welch Foods N	Sept	22	31	Request for order to restrain FTC from charging antitrust violation denied . R	July	21	15	plastics show	Nov	10	19
CPR Div. will build urethane manufac- turing unit in Fairbanks, Alaska R	Oct	6	15	Warren Petroleum — contract with NGP , N Waugh Controls — in-line blending un-	Sept	22	59	Woelm, M. (Co.) — acquired by Interna- tional Chemical & Nuclear	Dec	15	33
Fermentation and chemical conversion plant in Puerto Rico R	Dec	8	19	ravels chemical mixing maze (flow-				Wolf Ridge Joint Venture - Interior Dept. grants lease to mine sodium salts in fed-			
Fine Chemicals Div. develops Photozid,	000	0		sheets)	Nov	24	35	eral oil shale lands in Colo N	July	14	10
light-sensitive polymer that bonds it- self to other materials N Oct 6-48	Oct	27	39	halt Agriculture Dept. plans to issue				Wolf Ridge Minerals Corp. — Interior Dept. grants lease to mine sodium salts in fed-			
Sales and earnings - third-quarter esti-				royalty-free, exclusive licenses to Upjohn and Welch Food	Sept	22	31	eral oil shales lands in Colo N	July	14	10
Tetracycline judgment: U.S. Surpreme	Oct	13	28	Wellman-Power Gas — hydrofluoric acid processes using waste recovered from				Wyandotte Chemicals — chemical hiring: no pickup in '72 (chart)	Nov	3	20
Court refuses to hear appeal challenging the way money from court judgment				phosphate fertilizer plants	July	14	34	Wyeth Laboratories - Phenergan and Largon: FDA may crack down on			
will be distributed N	Oct	20	17	Pipaline-gas-from-natural-liquids plant N Welsbach Co. — ozone adds punch to	Oct	20	69	phenothiazines N	Nov	24	14
Urethane chemical intermediates plant at Delfzijl, Netherlands	July	28	15	oxidation of waste waters	Nov	3	53				
Upjohn Polymer - Netherlands: plant at	,	20		Western States Machine — centrifuges de- signs aimed at sludge dewatering	Dec	15	37	Y			
Delfzijl for production of basic ma- terials for plastics	July	7	45	Westinghouse Electric Co. – platform- mounted offshore nuclear power				•			
Urban Systems - toys: pollution test kits	Dec	22-	34	plants	Aug	18	98	Yacimientos Petroliferos Fiscales -			
Vitah International — Lurgi plant to make	Dec	22.	34	Westinghouse Research Labs. — garbage cleans up oil	Aug	18	14	Argentine petrochemical development plan will be based on findings in survey .	Sept	1	16
gas equivalent to natural gas studied by new group	Nov	3	51	Westport Chemicals — wood adhesives				Petroquimica Bahia Blanca see under			
new group	1404	3	31	operations bought from Monsanto R Weyerhaeuser Co. – employees on the	Dec	1	21	name Polypropylene plant in Mendoza			
V				West Coast accept a new 3-year con-	Cont	1	5	province planned N	Nov	17	31
Valley Nitrogen - Chemical Distributors				tract N Whatley, W.J. (Co.) – glass-fiber-rein-	Sept	,		-			
see under name Purchases Early California Industries'				forced light poles N Whittaker Corp. – Brill, Richard, senior	Aug	4	34	2			
chemical fertilizer and pesticide	-			v-p: Says Pacific horizons aren't as lush				Zaremba Co Hooker will acquire the			
business	Oct	6	15	as chemical ones	Nov	3	64	evaporator systems business R Zegrap — Pancevo complex contracts	July	17	15 35
Kunstoffwerke Hoehn	Oct	20	30	some diamond-like properties on room-			0.4	Zimpro, Inc Navy moves to adopt ship-			
Aromatics facilities at refinery planned for Rheinburg-Orsoy	July	7	45	temperature substrates	July	21	24	board sewage treatment process Zoecon Corp. – insect growth regulants:	Dec	15	20
Vectra Corp. – acquired by Chevron Chemical	July	14	14	Corp., and its distribution rights to Courier Communications to Resdel				two new juvenile hormone analogs syn-	Dec	8	43
Vel-Cord Southern – acquired by Newport				EngineeringR		7	15	thesized N Zuliano – Polimeros del Lago see under	Dec	0	43
Chemical	July	7	15	Sales and earnings, nine months Turner Metals Div. may be acquired by	Sept	8	16	Zurn Industries – acquisition of Vulcan			